31/2/pt.3

3.

September 30, 1982

NIGMS Research Grants

by Institution

NEWARK PUBLIC LIBRARY

JUN 29 1983

U. S. GOVT. PUBS.
DEPOSITORY 376

U.S. DEPARTMENT OF HEALTH
AND HUMAN SERVICES
Public Health Service
National Institutes of Health

DISCRIMINATION PROHIBITED—Title VI of the Civil Rights Act of 1964 states: "No person in the United States shall, on the ground of race, color, sex, age, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." Therefore, the grant and award programs of the Public Health Service, like every program or activity receiving financial assistance from the Department of Health and Human Services, must be operated in compliance with this law.

Part

3.

September 30, 1982

Research Grants

by Institution

Office of Program Analysis
National Institute of General Medical Sciences
National Institutes of Health
Bethesda, Maryland 20205

CONTENTS

	Page
Foreword	iii
SPECIAL NOTES	iv
Explanatory Notes - Table Headings	v
NIGMS Program Areas	vii
Index of Initial Review Groups (Study Sections)	xiv

Tables

1	Research Grants - by Grant Number	SEE PART 1
2	Research Grants - by Investigator	
3	Research Grants - by Initial Review Group and Grant Number	SEE PART 2

****

Part 3 5 Research Grants - By Area (State and City) and Grantee Institution, by Investigator

****

READEX FICHE

FOREWORD

This list of research grants supported by NIGMS replaces the list of September 30, 1981. It provides information on 2,879 awards with a total value of $296,649,364 which were "active" on September 30, 1982. These awards include projects for which the budget period has been extended from a prior year without the award of new funds.

Although these lists provide data as of September 30, changes in the lists, such as the extension of an award beyond September 30, 1982, and additions or terminations of awards effective as of that date but processed subsequent to tabulation of these reports, do occur. However, the frequency of such changes is small, and the need for timely publication far outweighs this small loss in completeness.

Grants are coded to the level of detail which the full 5-digit program area code permits, and the list which begins on page vii gives all program areas, whether or not they are in use at this time.

Thomas L. Mitchell
Chief, Data Management Systems Unit
Financial & Data Management Section
Office of Administrative Management
National Institute of General Medical Sciences

SPECIAL NOTES

Funds. The dollar amounts indicated for each grant represent the amount available for expenditure during the current grant year, not the original commitment or the amount encumbered. Commitments may be reduced by unexpended balances from the previous year, by negotiation, or by both. The use of the "amount available" was introduced in the December 31, 1967 listings.

Supplements. Supplemental awards are listed separately and the amount of the supplement is not included in the amount shown for the base grant. Supplements are indicated by an "S1" or "S2" (meaning first or second supplement) after the grant year. They appear either immediately preceding or immediately following the base grant. If a grant shows a base year and an "S2," the "S1" was either disapproved or withdrawn.

Initial Review Group. In the past few years a number of IRG's have been subdivided or reorganized. The IRG designations attached to specific grants, however, have not kept pace with these changes. The Index of Initial Review Groups, which begins on page xiv of each volume, indicates the combination of IRG's. This index is intended as a page reference for Table 3, but also serves as a glossary of IRG symbols.

Grant Year. A recent change in grant policy permits, in special cases, the extension of the terminal year of a grant period concurrent with the award of the first year of the new grant period. This means that it is now possible for two different grant years of the same grant to be active simultaneously.

Asterisks have been used to identify various items, as follows:

* - Centers, all tables

** - Institution totals in Table 5

*** - IRG totals in Table 3
- Program area totals in Table 4
- State totals in Table 5

**** - Grand total for the entire grant program, whenever it occurs.

EXPLANATORY NOTES - TABLE HEADINGS

DEPARTMENT. Department title in Table 5 is given as it appears on the award statement.

DIR. COSTS & TOTAL DOLLARS. Dollars available for expenditure in terms of direct costs and total dollars. Indirect costs may be obtained by subtraction.

END or END DATE. To save space, only the month and year in which the budget period is expected to terminate are indicated.

F-YRS. The number of additional or future years of support committed, as indicated on the award statement. For some grants for which no future support is indicated in these tables, new awards, in fact, may have been approved at an advisory council meeting subsequent to the issuance of the last award statement.

FY. The latest fiscal year from which an award was paid.

GRANT NO. The 5-digit number identifying the grant.

GRANT YR. The year of the award. In some cases, two years of a grant are active during the same period. This happens when the last year of a project period is extended to allow the investigator to take care of outstanding obligations and at the same time to go on with the current year's research.

GRANT T or TYPE. Type of application. The application type is identified by the standard numerical code used for this purpose; i.e., Type 1 is a competing new application, Type 2 is a competing renewal, Type 3 is a supplement, Type 5 is a non-competing continuation, etc.

INVESTIGATOR. The last name, first name, and middle initial of the investigator are given as they appear on the award statement.

IRG. The Initial Review Group (Study Section) to which the research grant application was assigned is identified by the standard alphabetic abbreviation used by DRG.

PROGRAM AREA. A numeric code is shown under the grant type in Tables 1, 3, and 4 and in a separate column in Tables 2 and 5. This code identifies the NIGMS program area to which the grant has been assigned. A dictionary for the code is given on page vii.

PROJECT TITLE. Space allowed for project titles is limited to 56 characters. On occasion, titles longer than this are received. If they are not edited by the time the lists are produced, the extra characters are cut off by the computer program.

I CELLULAR AND MOLECULAR BASIS OF DISEASE PROGRAM

Cellular Basis of Disease Section

22100 Basic Pathobiology

22200 Cell Regulation, Differentiation, and Growth

22250 Cell Organization, Motility, and Division

22300 Membrane Structure and Function

Molecular Basis of Disease Section

22400 Enzyme Catalysis and Regulation

22410 Glycoconjugates

22450 Bioenergetics

22500 Structural Studies of Proteins and Related Model Systems

22550 Diffraction Analysis of Proteins and Related Model Systems

22600 Theoretical Studies of Proteins and Related Model Systems

II GENETICS PROGRAM

Molecular and Medical Genetics Section

- 21100 Physical and Organic Chemistry of Nucleic Acids
- 21200 Replication, Recombination and Repair of DNA
- 21250 Mechanisms of Mutagenesis
- 21280 Extrachromosomal Inheritance
- 21310 Mechanism of Transcription
- 21320 Mechanism and Control of Translation and Assembly
- 21400 Human Medical and Behavior Genetics
- 21480 Cytogenetics and Gene Mapping

Genetics of Growth and Differentiation Section

- 21600 Chromosome Organiziation and Mechanics
- 21700 Development Genetics
- 21750 Control of Gene Expression
- 21780 Rearrangement of Genetic Elements
- 21800 Dynamics of Genes in Populations

Genetics Centers

*21910	*21914
*21911	*21915
*21912	*21916
*21913	*21917

*Subclassification is used for assignment to responsible program officer, rather than by subtopic.

III PHARMACOLOGICAL SCIENCES PROGRAM

Pharmacology

*11300	Centers, Program Projects
*11350	Drug Delivery, Absorption, Distribution, and Elimination
*11380	Modifiers of Drug Action
*11700	Centers, Program Projects
*11750	Drug Delivery, Absorption, Distribution, and Elimination
*11760	Drug Metabolism
*11770	Molecular Basis of Drug Action
*11780	Modifiers of Drug Action
*11790	Drug Toxicity, Including Venom Studies
*11810	Chemistry of Natural Materials
*11820	Chemical Processes of Biomedical Significance
*11830	Relations Between Chemical Structure and Biological Activity
*11840	Development and Application of Chemical Methodology and Instrumentation Applicable to Compounds of Biochemical Interest
*11850	Drug Delivery, Absorption, Distribution, and Elimination
*11860	Drug Metabolism
*11870	Molecular Basis of Drug Action
*11880	Modifiers of Drug Action
*11890	Drug Toxicity, Including Venom Studies

*The middle digit is used to indicate assignment to responsible program officer. The fourth digit represents the principal research area. All fifth digits are coded zero at this time.

III PHARMACOLOGICAL SCIENCES PROGRAM (Continued)

Biorelated Chemical Processes

*11900 Program Projects

*11910 Chemistry of Natural Materials

*11920 Chemical Processes of Biomedical Significance

*11930 Relations between Chemical Structure and Biological Activity

*11940 Development and Application of Chemical Methodology and Instrumentation Applicable to Compounds of Biochemical Interest

*The middle digit is used to indicate assignment to responsible program officer. The fourth digit represents the principal research area. All fifth digits are coded zero at this time.

IV PHYSIOLOGY AND BIOMEDICAL ENGINEERING PROGRAM

Biomedical Engineering and Instrument Development Section

12100 Mathematical Methods

12200 Physiological Systems Analysis

12300 Biomaterials

12320 Mechanical and Physico-chemical Properties of Tissues

12350 Prosthetics

12400 Physiological Instrumentation

12500 Biomedical Information Processing

12820 Analytical and Separation Techniques

12840 Spectroscopic Techniques

12900 Shared Instrumentation

12910 Ultrasonic Imaging and Effects

12920 Electromagnetic Imagine and Effects

12930 Microscopy and Microanalysis

12990 Cellular Instrumentation

IV PHYSIOLOGY AND BIOMEDICAL ENGINEERING PROGRAM (Continued)

Physiological Sciences Section

13100	Anesthesiology Program Projects
13100C*	Anesthesiology Centers
13200	Anesthesiology
13250	Anesthesiology New Investigator
13300	Trauma and Burns Program Projects
13300C*	Trauma and Burns Centers
13410	Trauma and Burns - Physiology
13420	Trauma and Burns - Biochemistry
13450	Trauma and Burns - New Investigator
13700	Behavioral Sciences and Adaptation
13900	General Medicine
13901	Epidemiology

*The indicator "C" denotes Research Center (P50).

V MINORITY ACCESS TO RESEARCH CAREERS PROGRAM

29050 MARC Supportive Awards

Index of Initial Review Groups (Study Sections), Table 3

Abbreviation	IRG
AFY	Applied Physiology and Orthopedics
ALY	Allergy and Immunology
BBCA	Molecular and Cellular Biophysics
BBCB	Biophysical Chemistry
BCE	Biochemical Endocrinology
BIO	Biochemistry
BM	Bacteriology and Mycology
BMT	Metallobiochemistry
BNP	Bio-organic and Natural Products Chemistry
BPNB	Basic Psychopharmacology and Neuropsychology Research Rev Comm
BPO	Bio-Psychology
CBY	Cell Biology
CMBD	Cellular & Molecular Basis of Disease
CP	Cellular Physiology Review Group
CPA	Chemical Pathology
CTY	Molecular Cytology
CVB	Cardiovascular and Renal
DABR	Drug Abuse Biomedical Research Review Committee
EDC	Epidemiology and Disease Control
EH	Blood Research Review Group
EI	Experimental Immunology
END	Endocrinology
ET	Experimental Therapeutics
EVR	Experimental Virology
EXP	Experimental Psychology
GBD	Genetic Basis of Disease Review Committee
GEN	Genetics
GMA	General Medicine A
GMB	General Medicine B
HED	Human Embryology and Development
HEM	Hematology
IMB	Immunobiology
IMS	Immunological Sciences
MBC	Microbial Physiology
MBY	Molecular Biology
MCHA	Medicinal Chemistry A
MCHB	Medicinal Chemistry B
MET	Metabolism
MG	Microbial Genetics Review Group
MGN	Mammalian Genetics
NEUA	Neurology A
NEUB	Neurology B
NLS	Neurological Sciences
NSS	No Initial Review Group

Index of Initial Review Groups (Study Sections), Table 3 - Continued

Abbreviation	IRG
NTN	Nutrition
ORTH	Orthopedic Musculoskeletal Study Section
PB	Physical Biochemistry
PBC	Pathobiological Chemistry
PC	Physiological Chemistry
PHRA	Pharmacology
PHY	Physiology
PTHA	Pathology A
PTHB	Pathology B
PTR	Pharmacological Sciences Review Committee
RAD	Radiation
REB	Reproductive Biology
RNM	Diagnostic Radiology
SAT	Surgery, Anesthesiology and Trauma
SB	Surgery and Bioengineering
SGYA	Surgery A
SGYB	Surgery B
SRC	Special Review Committee
SSS	Special Study Section
TMP	Tropical Medicine and Parasitology
TOX	Toxicology
VID	Visual Disorders Review Group
VR	Virology

Index of Initial Review Groups (Study Sections), Table 3

IRG	Abbreviation
Allergy and Immunology	ALY
Applied Physiology and Orthopedics	AFY
Bacteriology and Mycology	BM
Basic Psychopharmacology and Neuropsychology Research Rev Comm	BNPB
Biochemical Endocrinology	BCE
Biochemistry	BIO
Bio-organic and Natural Products Chemistry	BNP
Biphysical Chemistry	BBCB
Bio-Psychology	BPO
Blood Research Review Group	EH
Cardiovascular and Renal	CVB
Cell Biology	CBY
Cellular and Molecular Basis of Disease	CMBD
Cellular Physiology Review Group	CP
Chemical Pathology	CPA
Diagnostic Radiology	RNM
Drug Abuse Biomedical Research Review Committee	DABR
Endocrinology	END
Epidemiology and Disease Control	EDC
Experimental Immunology	EI
Experimental Psychology	EXP
Experimental Therapeutics	ET
Experimental Virology	EVR
General Medicine A	GMA
General Medicine B	GMB
Genetic Basis of Disease Review Committee	GBD
Genetics	GEN
Hematology	HEM
Human Embryology and Development	HED
Immunobiology	IMB
Immunological Sciences	IMS
Mammalian Genetics	MGN
Medicinal Chemistry A	MCHA
Medicinal Chemistry B	MCHB
Metabolism	MET
Metallobiochemistry	BMT
Microbial Genetics Review Group	MG
Microbial Physiology	MBC
Molecular and Cellular Biophysics	BBCA
Molecular Biology	MBY
Molecular Cytology	CTY
Neurological Sciences	NLS
Neurology A	NEUA
Neurology B	NEUB
No Initial Review Group	NSS

Index of Initial Review Groups (Study Sections), Table 3 - Continued

IRG	Abbreviation
Nutrition	NTN
Orthopedic Musculoskeletal Study Section	ORTH
Pathobiological Chemistry	PBC
Pathology A	PTHA
Pathology B	PTHB
Pharmacology	PHRA
Pharmacological Sciences Review Committee	PTR
Physical Biochemistry	PB
Physiological Chemistry	PC
Physiology	PHY
Radiation	RAD
Reproductive Biology	REB
Surgery, Anesthesiology and Trauma	SAT
Surgery and Bioengineering	SB
Special Review Committee	SRC
Special Study Section	SSS
Surgery A	SGYA
Surgery B	SGYB
Toxicology	TOX
Tropical Medicine and Parasitology	TMP
Virology	VR
Visual Disorders Review Group	VID

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ALABAMA									
AUBURN			AUBURN UNIVERSITY AT AUBURN						
AULL, JOHN L / CHEMISTRY	BBCB		ISOLATION AND CHARACTERIZATION OF DEUTERATED ENZYMES / 09-01-81 02-28-83	0	22400	5	R01 GM 27013-03	62,492	81
** 1 TOTAL								62,492	
BIRMINGHAM			UNIVERSITY OF ALABAMA IN BIRMINGHAM						
COOK, WILLIAM J / PATHOLOGY	BBCB		THE MOLECULAR STRUCTURE OF CALMODULIN / 07-01-82 06-30-83	1	22550	5	R01 GM 29427-02	62,821	82
COOK, WILLIAM J / PATHOLOGY	BBCB		THE MOLECULAR STRUCTURE OF UBIQUITIN / 12-01-81 03-31-83	0	22550	5	R01 GM 27144-03	17,477	82
GLICKSON, JERRY D / BIOCHEMISTRY	BBCA		NMR TECHNIQUES FOR DELINEATING PEPTIDE CONFORMATIONS / 12-01-80 11-30-82	0	22500	5	R01 GM 24852-03	57,170	81
KRISHNA, N RAMA / COMPREHENSIVE CANCER CENTER	BBCB		NMR STUDIES OF T AND B CELL DIFFERENTIATING PEPTIDES / 01-01-81 12-31-82	0	22500	5	R01 GM 25219-03	61,673	81
KRUMDIECK, CARLOS L / BIOCHEMISTRY	BIO		STUDIES ON THE BIOCHEMISTRY PTEROYPOLYGLUTAMATES / 09-01-82 08-31-83	0	22400	5	R01 GM 23453-05	75,517	82
RHODES, R KENT / BIOCHEMISTRY	PBC		PHYSIOLOGICAL SIGNIFICANCE OF A & B CHAIN COLLAGEN / 07-01-82 06-30-83	0	22200	5	R01 GM 27993-03	75,905	82
SAKAI, TED T / BIOCHEMISTRY	MCHA		SYNTHESIS AND PROPERTIES OF BLEOMYCIN ANALOGS / 03-01-82 02-28-83	0	21100	5	R01 GM 27900-03	65,663	82
SUDDATH, FRED L, JR / BIOCHEMISTRY	BBCB		HIGH RESOLUTION STRUCTURE OF PISUM SATIVUM LECTIN / 05-01-82 04-30-83	2	22550	1	R01 GM 30551-01	39,586	82
TURNBOUGH, CHARLES L, JR / MICROBIOLOGY	MG		REGULATION OF PYRIMIDINE GENE EXPRESSION IN BACTERIA / 08-01-82 07-31-83	1	21750	5	R01 GM 29466-02	68,265	82
URRY, DAN W / LAB OF MOLECULAR BIOPHYSICS	BBCB		CHANNEL MECHANISMS FOR PERMEATION OF BIOMEMBRANES / 07-01-82 06-30-83	1	22300	5	R01 GM 26898-04	105,473	82
** 10 TOTAL								629,550	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ALABAMA									
HUNTSVILLE	UNIVERSITY OF ALABAMA IN HUNTSVILLE								
MEEHAN, EDWARD J, JR CHEMISTRY	MOLECULAR STRUCTURE OF PISUM SATIVUM LECTIN								
	BBCB		12-01-81 11-30-82	1	22550	5	R01 GM 28652-02	35,983	82
** 1 TOTAL								35,983	
MOBILE	UNIVERSITY OF SOUTH ALABAMA								
AYLING, JUNE E PHARMACOLOGY	OXYGEN ACTIVATION BY PHENYLALANINE HYDROXYLASE								
	BIO		07-01-82 06-30-83	2	22400	5	R01 GM 30368-02	104,059	82
CURRERI, P WILLIAM SURGERY	METABOLISM AND NUTRITION IN BURNS AND TRAUMA								
	SAT		02-01-82 01-31-83	2	13420	5	R01 GM 29796-02	88,307	82
** 2 TOTAL								192,366	
*** 0 *CENTERS								0	
*** 14 NONCENTER								920,391	
*** 14 TOTAL								920,391	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ARIZONA									
TEMPE			ARIZONA STATE UNIVERSITY						
CRONIN, JOHN R			NMR OF CHEMICALLY MODIFIED HEART MUSCLE CYTOCHROME C						
CHEMISTRY	BBCB		07-01-82 06-30-83	0	22450	5	R01 GM 27200-03	34,158	82
DOANE, WINIFRED W			GENETIC REGULATORY MECHANISMS IN CELLULAR DIFFERENTIATIO						
ZOOLOGY	GEN		01-01-82 12-31-82	1	21700	5	R01 GM 25255-05	153,669	82
LOHR, DENNIS E			PHASING AND REPEATS IN ACTIVELY TRANSCRIBED CHROMATIN						
CHEMISTRY	GEN		07-01-82 06-30-83	2	21600	2	R01 GM 27623-03A1	72,354	82
MARKOW, THERESE A			GENETICS OF SEXUAL SELECTION						
ZOOLOGY	GEN		05-01-82 04-30-83	2	21400	1	R01 GM 30638-01	43,400	82
MUNK, MORTON E			COMPUTER-ASSISTED STRUCTURE ELUCIDATION						
CHEMISTRY	SSS		01-01-82 12-31-82	0	11940	5	R01 GM 21703-06	106,685	82
** 5 TOTAL								410,266	
TUCSON			UNIVERSITY OF ARIZONA						
ARORA, SATISH K			STRUCTURAL INVESTIGATIONS OF MODE OF ACTION OF DRUGS						
CHEMISTRY	BBCA		03-01-82 02-28-83	0	11870	5	R01 GM 25150-05	45,759	82
BERNSTEIN, HARRIS			DNA REPLICATION AND REPAIR IN PHAGE T4						
MOLECULAR AND MED MICROBIOLOGY	MBC		12-01-81 11-30-82	0	21200	5	R01 GM 27219-03	84,010	82
BOURQUE, DON P			MOLECULAR BIOLOGY OF CHLOROPLAST RIBOSOMES						
NUTRITION AND FOOD SCIENCE	CTY		09-01-82 08-31-83	4	21320	2	R01 GM 26937-04	112,318	82
CHIU, WAH			ELECTRON MICROSCOPY ANALYSIS OF DNA-BINDING PROTEIN						
CELL AND DEVELOPMENTAL BIOLOGY	BBCB		07-01-82 06-30-83	2	12930	2	R01 GM 27061-04	104,216	82
CUSANOVICH, MICHAEL A			BIOLOGICAL ELECTRON TRANSFER						
UNIV DEPT OF BIOCHEMISTRY	SSS		04-01-82 03-31-83	4	22450	2	R01 GM 21277-07A1	107,056	82
DUFFY, JOHN J			REGULATION OF RNA POLYMERASE II SYNTHESIS						
PHARMACOLOGY	MBY		02-01-82 01-31-83	2	21750	1	R01 GM 30249-01	87,705	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ARIZONA									
TUCSON	UNIVERSITY OF ARIZONA								
FORSTER, LESLIE S CHEMISTRY	PROTEIN FLUCTUATIONS AND FLUORESCENCE QUENCHING BBCA		04-01-82 03-31-83	2	22500	1	R01 GM 30017-01	31,560	82
GRUENER, RAPHAEL P PHYSIOLOGY	ANESTHETIC ACTION ON NORMAL AND HYPERTHERMIA MUSCLES SAT		12-01-81 05-31-83	0	13200	5	R01 GM 27353-03	34,444	82
ITO, JUNETSU MOLECULAR AND MED MICROBIOLOGY	STUDIES OF SPORULATION IN BACILLUS SUBTILIS MBC		04-01-82 03-31-83	0	21750	5	R01 GM 28362-03	87,101	82
ITO, JUNETSU MOLECULAR AND MED MICROBIOLOGY	REPLICATION OF LINEAR DNA MOLECULES MG		07-01-82 06-30-83	3	21200	5	R01 GM 28013-03	107,800	82
LAW, JOHN H UNIV DEPT OF BIOCHEMISTRY	STUDY OF LIPID METABOLISM PC		02-01-82 01-31-83	1	22400	5	R01 GM 29238-02	150,918	82
LINDELL, THOMAS J PHARMACOLOGY	CHARACTERIZATION OF NUCLEAR ENZYMOLOGY IN SITU MBY		04-01-82 03-31-83	0	21750	5	R01 GM 22897-06	54,228	82
LITTLE, JOHN W MOLECULAR AND MED MICROBIOLOGY	BIOCHEMICAL ANALYSIS OF THE E. COLI LEXA GENE PRODUCT MG		08-01-82 07-31-83	2	21250	5	R01 GM 24178-06	106,612	82
MC REYNOLDS, LARRY A UNIV DEPT OF BIOCHEMISTRY	DEVELOPMENT OF VECTOR FOR EUKARYOTIC GENE TRANSFER GEN		04-01-81 09-30-82	0	21750	5	R01 GM 25692-03	79,208	81
MOUNT, DAVID W MOLECULAR AND MED MICROBIOLOGY	MECHANISM OF INDUCTION OF VIRAL AND CELLULAR FUNCTIONS MG		01-01-82 12-31-82	3	21200	5	R01 GM 24496-05	122,366	82
RUPLEY, JOHN A UNIV DEPT OF BIOCHEMISTRY	MACROMOLECULAR SOLVATION BBCA		12-01-81 11-30-82	4	22500	2	R01 GM 24760-04	84,840	82
RUSSELL, FINDLAY E PHARMACOLOGY AND TOXICOLOGY	VENOMS OF ANIMALS OF UNITED STATES AND YUGOSLAVIA TOX		01-01-82 12-31-82	1	11890	5	R01 GM 29277-02	77,440	82
SALEMME, FRANCIS R UNIV DEPT OF BIOCHEMISTRY	X-RAY STUDIES OF PROTEIN STRUCTURE BBCA		08-01-82 07-31-83	0	22550	5	R01 GM 21534-09	79,075	82
SALEMME, FRANCIS R UNIV DEPT OF BIOCHEMISTRY	STRUCTURAL COOPERATIVITY IN PROTEINS BBCA		05-01-82 04-30-83	2	22600	1	R01 GM 30393-01	52,050	82
SHIMIZU, NOBUYOSHI CELL AND DEVELOPMENTAL BIOLOGY	GENETIC CONTROL OF MAMMALIAN CELL SURFACE FUNCTIONS MGN		07-01-82 06-30-83	2	22200	5	R01 GM 24375-06	100,007	82
** 20 TOTAL								1,708,713	
*** 0 *CENTERS								0	
*** 25 NONCENTER								2,118,979	
*** 25 TOTAL								2,118,979	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ARKANSAS										
FAYETTEVILLE			UNIVERSITY OF ARKANSAS AT FAYETTEVILLE							
GEREN, COLLIS R CHEMISTRY			VENOM COMPONENTS: ISOLATION, CHARACTERIZATION AND USE							
	TOX		07-01-82	06-30-83	0	11790	5	R01 GM 24173-06	57,399	82
KOEPPE, ROGER E, II CHEMISTRY			MOLECULAR STUDIES OF PROTEIN-NUCLEIC ACID RECOGNITION							
	PC		12-01-81	11-30-82	1	21320	5	R01 GM 28605-02	39,309	82
MILLETT, FRANCIS S CHEMISTRY			NMR STUDIES OF MEMBRANE BOUND PROTEINS							
	BBCB		08-01-82	07-31-83	2	22500	2	R01 GM 20488-10	82,801	82
** 3 TOTAL									179,509	
LITTLE ROCK			UNIVERSITY OF ARKANSAS MED SCIENCES							
YEH, YUN-CHI BIOCHEMISTRY			BIOCHEMICAL AND GENETIC STUDIES OF DNA SYNTHESIS							
	MBC		04-01-80	03-31-83	0	21200	5	R01 GM 18012-08	60,401	80
** 1 TOTAL									60,401	
*** 0 *CENTERS									0	
*** 4 NONCENTER									239,910	
*** 4 TOTAL									239,910	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
BERKELEY			UNIVERSITY OF CALIFORNIA BERKELEY						
AMES, BRUCE N BIOCHEMISTRY	PC		REGULATION OF GENE FUNCTION AND PROTEIN SYNTHESIS 01-01-82 12-31-82	0	21320	5	R01 GM 19993-15	138,223	82
BARTLETT, PAUL A CHEMISTRY	MCHA		SYNTHESIS OF MACROCYCLIC NATURAL PRODUCTS 04-01-82 03-31-83	4	11910	9	R01 GM 30759-08	102,489	82
BARTLETT, PAUL A CHEMISTRY	MCHA		SYNTHESIS OF POLYETHER NATURAL PRODUCTS 02-01-82 01-31-83	4	11940	1	R01 GM 30141-01	121,495	82
BERGMAN, ROBERT G CHEMISTRY	BMT		C-N BOND FORMATION USING METAL-BASED REAGENTS 08-01-82 07-31-83	3	11940	5	R01 GM 25459-05	113,977	82
BLACKBURN, ELIZABETH H MOLECULAR BIOLOGY	GEN		SPECIFIC DNA-PROTEIN INTERACTIONS IN TETRAHYMENA 07-01-82 06-30-83	1	21600	5	R01 GM 26259-05	102,582	82
CANDE, W ZACHEUS BOTANY	CBY		FUNCTIONAL MODEL FOR MITOSIS IN CELL LINES 07-01-82 06-30-83	4	22250	2	R01 GM 23238-07	114,549	82
CHAMBERLIN, MICHAEL J BIOCHEMISTRY	MG		SELECTIVITY OF BACTERIAL TRANSCRIPTION 04-01-82 03-31-83	4	21310	2	R01 GM 12010-19	195,716	82
CHAMBERLIN, MICHAEL J BIOCHEMISTRY	SSS		NIGMS SHARED INSTRUMENTATION GRANT 04-01-82 03-31-83	2	21310	33	R01 GM 12010-19S1	179,768	82
COLE, R DAVID BIOCHEMISTRY	PC		HISTONE BIOCHEMISTRY AND THE INFLUENCE OF HORMONES 06-01-82 05-31-83	0	21600	5	R01 GM 20338-15	139,035	82
COZZARELLI, NICHOLAS R MOLECULAR BIOLOGY	PBC		RNA LIGASE FUNCTION AND USE IN DNA SYNTHESIS 07-01-82 02-28-83	1	21200	7	R01 GM 31655-01	41,151	82
COZZARELLI, NICHOLAS R MOLECULAR BIOLOGY	MG		ENZYMOLOGICAL AND GENETIC STUDIES OF DNA POLYMERASES 07-01-82 06-30-83	2	21200	7	R01 GM 31657-01	129,665	82
DANIELL, ELLEN VIRUS LABORATORY	EVR		CHROMATIN PROTEINS: EFFECT ON TRANSCRIPTION IN VITRO 07-01-82 06-30-83	1	21600	1	R01 GM 30864-01	54,788	82
DAUBEN, WILLIAM G CHEMISTRY	MCHA		MODIFIED STEROID AND POLYTERPENOID ANTITUMOR AGENTS 12-01-81 11-30-82	2	11910	5	R01 GM 27320-23	75,006	82
DOWNING, KENNETH H BIOLOGY AND MEDICINE	MBY		DNA STRUCTURE BY ELECTRON DIFFRACTION AND MICROSCOPY 04-01-82 03-31-83	0	21100	5	R01 GM 27291-03	48,052	82

CALIFORNIA

BERKELEY

UNIVERSITY OF CALIFORNIA BERKELEY

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
EAKIN, RICHARD M / ZOOLOGY	STUDIES IN FINE STRUCTURE	VID		09-01-82	08-31-83	0	22200	5	R01 GM 28778-21	67,001	82
ECHOLS, G HARRISON, JR / MOLECULAR BIOLOGY	GENETIC & CHEMICAL STUDIES OF PHAGE LAMBDA DEVELOPMENT	VR		09-01-82	08-31-83	1	21750	5	R01 GM 17078-14	181,194	82
ESPOSITO, MICHAEL S / BIOLOGY AND MEDICINE	COMPARATIVE ANALYSIS OF MITOTIC & MEIOTIC RECOMBINATION	GEN		08-01-82	07-31-83	2	21600	5	R01 GM 29002-03	137,460	82
FOGEL, SEYMOUR / GENETICS	RECOMBINATION--DNA SYNTHESIS AND DEVELOPMENT IN YEAST	GEN		05-01-82	04-30-83	4	21200	2	R01 GM 17317-13	112,734	82
FREELING, MICHAEL / GENETICS	STRUCTURE OF THE ANAEROBIC STRESS GENES	GEN		03-01-82	02-28-83	1	21600	5	R01 GM 28600-02	59,773	82
FREELING, MICHAEL / GENETICS	DEVELOPMENTAL GENETICS WITH AN INDUCIBLE GENE SYSTEM	GEN		02-01-82	01-31-83	3	21700	5	R01 GM 21734-08	94,489	82
FRISTROM, JAMES W / GENETICS	GENIC/MOLECULAR BASIS OF IMAGINAL DISC MORPHOGENESIS	GEN		01-01-82	12-31-82	0	21700	5	R01 GM 19937-10	107,033	82
FRISTROM, JAMES W / GENETICS	THE ACTIN MULTIGENE FAMILY OF DROSOPHILA MELANOGASTER	GEN		08-01-82	07-31-83	1	21700	5	R01 GM 29354-02	101,786	82
GERHART, JOHN C / VIRUS LABORATORY	STUDIES OF CELLULAR REGULATORY MECHANISMS	REB		09-01-82	08-31-83	1	22200	5	R01 GM 19363-19	161,939	82
GLAESER, ROBERT M / BIOLOGY AND MEDICINE	BIOLOGICAL STRUCTURE ANALYSIS BY ELECTRON MICROSCOPY	SSS	3	07-01-82	06-30-83	3	12930	2	R01 GM 23325-07	371,438	82
GOLDSMITH, WERNER / MECHANICAL ENGINEERING	HEAD/NECK/UPPER TORSO RESPONSE TO DYNAMIC LOADING	AFY		07-01-82	06-30-83	3	12320	5	R01 GM 29280-02	59,611	82
HEARST, JOHN E / CHEMISTRY	THE STRUCTURE OF RNA POLYMERASE TERNARY COMPLEXES	BBCA		08-01-82	07-31-83	2	21310	1	R01 GM 30781-01	11,565	82
HEARST, JOHN E / CHEMISTRY	DIFFERENTIATION & GENETICS OF A PHOTOSYNTHETIC MEMBRANE	MBC		08-01-82	07-31-83	2	21750	1	R01 GM 30786-01	99,330	82
HEARST, JOHN E / CHEMISTRY	STRUCTURE-FUNCTION RELATIONSHIPS OF NUCLEIC ACIDS	BBCB		07-01-82	06-30-83	1	21100	5	R01 GM 11180-19	181,016	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
BERKELEY	UNIVERSITY OF CALIFORNIA BERKELEY							
HEARST, JOHN E CHEMISTRY	NUCLEIC ACID INTERACTIONS WITH SYNTHETIC PSORALENS MCHA	04-01-82 03-31-83	1	21100	5	R01 GM 25151-05	102,481	82
HEATHCOCK, CLAYTON H CHEMISTRY	STEREOSELECTIVE SYNTHESIS OF POLYETHER IONOPHORES BNP	03-01-82 02-28-83	2	11910	5	R01 GM 28849-02	84,019	82
HEATHCOCK, CLAYTON H CHEMISTRY	TOTAL SYNTHESIS OF COMPACTIN AND MEVINOLIN BNP	09-15-82 08-31-83	2	11910	1	R01 GM 29815-01A1	83,828	82
HOSODA, JUNKO BIOLOGY AND MEDICINE	THE STRUCTURE OF HELIX DESTABILIZING PROTEIN BBCA	04-01-82 03-31-83	1	21200	5	R01 GM 23563-05	93,875	82
JENSEN, FREDERICK R CHEMISTRY	DEMETALLATION, ALKYLATION AND BIOCHEMICAL PROCESSES BMT	03-01-82 02-28-83	0	11920	5	R01 GM 15373-13	75,190	82
KIM, SUNG-HOU CHEMISTRY	CRYSTALLINE COMPLEXES OF DNA WITH OTHER MOLECULES BBCA	07-01-82 06-30-83	4	21100	9	R01 GM 31616-04	64,779	82
KIM, SUNG-HOU CHEMISTRY	STRUCTURES OF ECORI RESTRICTION-MODIFICATION ENZYMES BBCB	08-01-82 07-31-83	3	22550	5	R01 GM 29287-02	83,265	82
KLINMAN, JUDITH P CHEMISTRY	DOPAMINE-B-HYDROXYLASE: MOLECULAR MECHANISMS BIO	06-01-82 05-31-83	2	22400	2	R01 GM 25765-05	128,629	82
LINN, STUART M BIOCHEMISTRY	STUDIES OF DNA POLYMERASES PC	06-01-82 05-31-83	4	21200	1	R01 GM 30415-01	106,380	82
LINN, STUART M BIOCHEMISTRY	IN VITRO RESTRICTION AND MODIFICATION OF PHAGE DNA MG	01-01-82 12-31-82	4	21200	2	R01 GM 19020-14	119,551	82
LUCAS, JOE BIOMEDICAL SCIENCES DIVISION	CHROMOSOMAL FLOW CYTOMETRY: DNA AND CENTROMERES SSS	04-01-82 03-31-83	0	12990	5	R01 GM 25076-05	183,591	82
MACEY, ROBERT I PHYSIOLOGY-ANATOMY	CALCIUM & MAGNESIUM IN MEMBRANE TRANSPORT MAINTENANCE PHY	12-01-81 11-30-82	2	22300	5	R01 GM 18819-09	71,264	82
MALKIN, RICHARD PLANT AND SOIL BIOLOGY	IRON-SULFUR PROTEINS AS BOUND ELECTRON CARRIERS PB	07-01-82 06-30-83	0	22450	5	R01 GM 20571-09	65,620	82
MEHLHORN, ROLF J ENERGY & ENVIRONMENT DIVISION	ASYMMETRY OF THE INNER MITOCHONDRIAL MEMBRANE BBCB	01-01-81 12-31-82	0	22300	5	R01 GM 24273-03	67,328	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA										
BERKELEY	UNIVERSITY OF CALIFORNIA BERKELEY									
PAIGEN, KENNETH / GENETICS	STUDIES OF MAMMALIAN GENE REGULATION	SSS		05-01-82 04-30-83	1	21700	1	R01 GM 31656-01	364,719	82
RAPOPORT, HENRY / CHEMISTRY	STRUCTURE OF PROTEIN-BOUND BILE PIGMENTS	BIO		05-01-82 04-30-83	4	22500	1	R01 GM 28994-01A1	110,734	82
RINE, JASPER D / BIOCHEMISTRY	ANALYSIS OF THE GENES CONTROLLING A POSITION EFFECT	GEN		07-01-82 06-30-83	2	21750	1	R01 GM 31105-01	104,849	82
SALZMAN, GARY C / NONE	BIOMEDICAL APPLICATIONS OF LIGHT-SCATTER TECHNOLOGY	SSS		04-01-82 03-31-83	0	12990	5	R01 GM 26857-03	81,498	82
SCHACHMAN, HOWARD K / VIRUS LABORATORY	STRUCTURES AND INTERACTIONS OF BIOLOGICAL MACROMOLECULES	BBCA		05-01-82 04-30-83	1	22500	5	R01 GM 12159-19	164,536	82
SCHEKMAN, RANDY / BIOCHEMISTRY	BIOLOGICAL STUDIES OF EUCARYOTIC CELL SURFACE GROWTH	CP		07-01-82 06-30-83	4	22300	2	R01 GM 26755-04	139,980	82
SCHLIWA, MANFRED / ZOOLOGY	INTRACELLULAR ORGANELLE TRANSPORT	CBY		07-01-82 06-30-83	2	22250	1	R01 GM 31041-01	90,760	82
STRAUSS, HERBERT L / CHEMISTRY	VIBRATIONAL STUDIES OF LIPID STRUCTURE AND DYNAMICS	BBCB		04-01-82 03-31-83	0	22300	5	R01 GM 27690-03	73,731	82
STREITWIESER, ANDREW / CHEMISTRY	ION PAIR CARBON ACIDITY	MCHA		05-01-82 04-30-83	2	11940	1	R01 GM 30369-01	74,021	82
THORNER, JEREMY W / MICROBIOLOGY AND IMMUNOLOGY	CELL-CELL INTERACTIONS OF A SIMPLE EUKARYOTE	GEN		01-01-82 12-31-82	1	22200	5	R01 GM 21841-08	111,393	82
TINOCO, IGNACIO, JR / CHEMISTRY	STRUCTURE AND FUNCTION OF NUCLEIC ACIDS	BBCA		12-01-81 11-30-82	2	21100	5	R01 GM 10840-24	164,448	82
TSIEN, ROGER Y / PHYSIOLOGY-ANATOMY	ROLE OF INTRACELLULAR FREE CALCIUM IN CELL PROLIFERATION	CP		07-01-82 06-30-83	2	22200	1	R01 GM 31004-01	100,043	82
VOLLHARDT, K PETER / CHEMISTRY	NOVEL ROUTES TO PHYSIOLOGICALLY ACTIVE COMPOUNDS	BMT		04-01-82 03-31-83	4	11940	2	R01 GM 22479-07	88,093	82
WILSON, ALLAN C / BIOCHEMISTRY	REGULATION AS A BASIS FOR ORGANISMAL DIFFERENCES	MGN		12-01-81 11-30-82	2	21800	5	R01 GM 21509-08	138,526	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
BERKELEY	UNIVERSITY OF CALIFORNIA BERKELEY								
YUND, MARY A GENETICS	HORMONAL REGULATION OF GENE ACTIVITY IN DROSOPHILA								
	GEN		04-01-82 03-31-83	0	22200	5	R01 GM 23349-06	87,875	82
ZUSMAN, DAVID R MICROBIOLOGY AND IMMUNOLOGY	BIOCHEMICAL STUDIES OF DEVELOPMENT IN BACTERIA								
	MG		08-01-82 07-31-83	4	22200	2	R01 GM 20509-10	99,219	82
** 57 TOTAL								6,627,090	
CLAREMONT	POMONA COLLEGE								
HANSCH, CORWIN H CHEMISTRY	FUNDAMENTALS OF DRUG DESIGN								
	SSS		05-01-82 04-30-83	2	11930	1	R01 GM 30362-01	106,065	82
TELZER, BRUCE R BIOLOGY	CELL DIVISION: ANALYSIS OF THE MITOTIC APPARATUS								
	CBY		07-01-82 06-30-83	2	22250	1	R01 GM 31003-01	81,633	82
** 2 TOTAL								187,698	
DAVIS	UNIVERSITY OF CALIFORNIA DAVIS								
ARTZ, STANLEY W BACTERIOLOGY	GENE REGULATORY MECHANISMS IN AMINO ACID BIOSYNTHESIS								
	MBC		12-01-81 11-30-82	0	21750	5	R01 GM 27307-03	92,299	82
BALCH, ALAN L CHEMISTRY	IRON PORPHYRIN ACTIVATION OF DIOXYGEN/SMALL MOLECULES								
	BMT		04-01-82 03-31-83	4	11920	2	R01 GM 26226-04	95,745	82
BOYD, JAMES B GENETICS	DNA SYNTHESIS IN MUTAGEN-SENSITIVE DROSOPHILA STRAINS								
	GEN		01-01-82 12-31-82	0	21250	5	R01 GM 25562-04	75,668	82
BRADBURY, EDWIN M BIOLOGICAL CHEMISTRY	CHROMATIN, HISTONE MODIFICATIONS AND HMG PROTEINS								
	MBY		08-01-82 07-31-83	0	21600	5	R01 GM 26901-04	193,684	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
DAVIS	UNIVERSITY OF CALIFORNIA DAVIS							
CONN, ERIC E BIOCHEMISTRY AND BIOPHYSICS	METABOLISM OF AROMATIC COMPOUNDS PC	03-01-82 02-28-83	4	11920	2	R01 GM 05301-25	96,558	82
DOI, ROY H BIOCHEMISTRY AND BIOPHYSICS	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION MG	09-01-82 08-31-83	3	21750	5	R01 GM 19673-11	90,733	82
ETZLER, MARILYNN E BIOCHEMISTRY AND BIOPHYSICS	STRUCTURE, DEVELOPMENT, AND MODIFICATIONS OF LECTINS PC	02-01-82 01-31-83	0	11920	5	R01 GM 21882-08	71,750	82
FEENEY, ROBERT E FOOD SCIENCE AND TECHNOLOGY	COMPARATIVE BIOCHEMISTRY OF PROTEINS PC	06-01-82 05-31-83	3	22500	2	R01 GM 23817-18	78,919	82
GREEN, MELVIN M GENETICS	GENETIC AND EVOLUTIONARY STUDIES WITH DROSOPHILA SSS	08-01-82 07-31-83	2	21700	5	P01 GM 22221-08	460,217	82
HERSHEY, JOHN W BIOLOGICAL CHEMISTRY	MECHANISM OF INITIATION OF PROTEIN BIOSYNTHESIS CTY	08-01-82 07-31-83	0	21320	5	R01 GM 22135-08	127,000	82
HOLLAND, MICHAEL J BIOLOGICAL CHEMISTRY	CONTROL OF TRANSCRIPTION OF ISOLATED EUCARYOTIC GENES GEN	05-01-82 04-30-83	4	21750	2	R01 GM 30307-02	80,887	82
INGRAHAM, LLOYD L BIOCHEMISTRY AND BIOPHYSICS	FLAVINS IN HYDROXYLATION AND BIOLUMINESCENCE BIO	04-01-82 03-31-83	0	22400	5	R01 GM 27239-03	44,653	82
KEIZER, JOEL E CHEMISTRY	MECHANISTIC NONEQUILIBRIUM THERMODYNAMICS OF METABOLISM BBCA	07-01-82 06-30-83	2	22400	1	R01 GM 30688-01	45,486	82
KIGER, JOHN A, JR GENETICS	GENETIC STUDIES OF CYCLIC NUCLEOTIDE METABOLISM GEN	04-01-82 03-31-83	3	21700	5	R01 GM 21137-08	97,730	82
KUSTU, SYDNEY G BACTERIOLOGY	GENETIC STUDIES OF GLUTAMINE SYNTHETASE IN BACTERIA MBC	06-01-82 05-31-83	0	21750	5	R01 GM 21307-09	90,102	82
MC QUARRIE, DONALD A CHEMISTRY	FORCE BALANCE IN POLYELECTROLYTE SYSTEMS BBCB	12-01-81 11-30-82	1	22600	5	R01 GM 26864-04	45,392	82
MEARES, CLAUDE F CHEMISTRY	PHOTOCHEMICAL & SPECTROSCOPIC PROBES OF RNA POLYMERASE BMT	12-01-81 11-30-82	4	21310	2	R01 GM 25909-04	71,563	82
MUSKER, W KENNETH CHEMISTRY	INTRAMOLECULAR EFFECTS ON ELECTRON TRANSFER PROCESSES BMT	07-01-82 06-30-83	0	11920	5	R01 GM 28063-03	57,814	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
DAVIS	UNIVERSITY OF CALIFORNIA DAVIS								
NUCCITELLI, RICHARD L ZOOLOGY	DEVELOPMENT AND MAINTENANCE OF EPITHELIAL CELL POLARITY CBY		09-24-82 08-31-83	2	22300	1	R01 GM 30062-01	84,850	82
PHAFF, H J FOOD SCIENCE AND TECHNOLOGY	GENOME COMPARISON AS A BASIS FOR YEAST SYSTEMATICS BM		12-01-81 11-30-82	0	21800	5	R01 GM 16370-12	84,485	82
RODRIGUEZ, RAYMOND L GENETICS	DNA SEQUENCES CONTROLLING GENE EXPRESSION MG		04-01-82 03-31-83	1	21750	5	R01 GM 29100-02	97,295	82
SCHMID, CARL W, JR CHEMISTRY	REPETITIVE DNA SEQUENCES IN THE HUMAN GENOME MBY		09-01-82 08-31-83	3	21600	5	R01 GM 21346-09	77,484	82
SCHORE, NEIL E CHEMISTRY	SYNTHESIS OF BIOLOGICALLY ACTIVE CYCLOPENTENONES BMT		04-01-81 03-31-83	0	11940	5	R01 GM 26294-03	47,807	81
SEGEL, IRWIN H BIOCHEMISTRY AND BIOPHYSICS	ENZYMOLOGY OF SULFATE ACTIVATION AND TRANSFER BIO		07-01-81 10-31-82	0	22400	5	R01 GM 26728-03	70,517	81
STUMPF, PAUL K BIOCHEMISTRY AND BIOPHYSICS	THE MOLECULAR STRUCTURE OF FATTY ACID SYNTHETASES PC		09-01-82 08-31-83	0	22400	5	R01 GM 29415-02	79,169	82
TIMBERLAKE, WILLIAM E BACTERIOLOGY	REGULATION OF THE LACTASE GENE OF ASPERGILLUS GEN		08-01-82 07-31-83	2	21700	2	R01 GM 30349-02	119,048	82
TRAUT, ROBERT R BIOLOGICAL CHEMISTRY	RIBOSOME STRUCTURE AND FUNCTION PC		05-01-82 04-30-83	1	21320	5	R01 GM 17924-12	136,097	82
TRUE, NANCY S CHEMISTRY	ROTATIONAL POTENTIAL FUNCTIONS OF AMIDES BBCA		02-01-82 01-31-83	2	22500	1	R01 GM 29985-01	35,134	82
VILLAREJO, MERNA R BIOCHEMISTRY AND BIOPHYSICS	ISOLATION AND CHARACTERIZATION OF THE LAC PERMEASE PBC		07-01-81 10-31-82	0	22300	5	R01 GM 23189-06	53,528	81
ZIBOH, VINCENT A DERMATOLOGY	ROLE OF PROSTAGLANDINS IN HEMOPOIESIS HEM		08-01-82 07-31-83	0	11770	5	R01 GM 30410-02	68,195	82
** 30 TOTAL								2,869,809	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
DOWNEY	RANCHO LOS AMIGOS HOSPITAL								
PERRY, JACQUELIN PATHOKINESIOLOGY	THE DYNAMICS OF EMG-FORCE-MOVEMENT RELATIONSHIPS								
	AFY		04-01-81 09-30-82	0	12320	5	R01 GM 26395-03	99,504	81
** 1 TOTAL								99,504	
DUARTE	CITY OF HOPE NATIONAL MEDICAL CENTER								
COMINGS, DAVID E NONE	PHYSIOLOGY AND BIOCHEMISTRY OF HUMAN CHROMOSOMES								
	GEN		12-01-81 11-30-82	2	21600	5	R01 GM 15886-16	130,667	82
ITAKURA, KEIICHI MOLECULAR GENETICS	SOLID-PHASE SYNTHESIS OF POLYNUCLEOTIDES								
	PC		04-01-82 03-31-83	0	21100	5	R01 GM 28651-02	41,532	82
ROSSI, JOHN J DIVISION OF BIOLOGY	SYNTHETIC DNA IN STUDIES OF EUKARYOTIC GENE EXPRESSION								
	GEN		02-01-82 01-31-83	2	21750	1	R01 GM 30134-01	109,613	82
SHIVELY, JOHN E IMMUNOLOGY	MICROSEQUENCING AND MOLECULAR CLONING OF FIBRONECTINS								
	PBC		09-01-82 08-31-83	1	22500	5	R01 GM 29007-02	112,974	82
** 4 TOTAL								394,786	
DUARTE	CITY OF HOPE RESEARCH INSTITUTE								
DE FRANCESCO, LAURA CELL BIOLOGY	RECOMBINATION IN MITOCHONDRIAL GENOME OF ANIMAL CELLS								
	MGN		08-01-81 11-30-83	0	21480	5	R01 GM 31260-02	53,435	82
ITAKURA, KEIICHI BIOLOGY	ISOLATION OF NUCLEIC ACIDS USING SYNTHETIC DNA AS PROBE								
	PC		08-01-82 07-31-83	2	21600	1	R01 GM 31259-01	121,577	82
ITAKURA, KEIICHI MOLECULAR GENETICS	PEPTIDE HORMONE PRODUCTION IN E COLI								
	MBC		06-01-82 05-31-83	1	21100	5	R01 GM 30395-02	105,565	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
DUARTE	CITY OF HOPE RESEARCH INSTITUTE								
KLEVECZ, ROBERT R CELL BIOLOGY	TIMING OF MAMMALIAN CELL CYCLE EVENTS SSS		12-01-81 11-30-82	3	22200	2	R01 GM 31262-02	139,420	82
RIGGS, ARTHUR D MOLECULAR BIOLOGY	REGULATORY PROTEINS IN E COLI AND EUKARYOTIC CELLS MGN		12-01-81 11-30-82	4	21600	2	R01 GM 31263-02	221,245	82
WALLACE, R BRUCE DIVISION OF BIOLOGY	MAJOR HISTOCOMPATIBILITY COMPLEX GENE SEQUENCES MGN		04-01-82 03-31-83	4	21750	2	R01 GM 31261-02	179,916	82
** 6 TOTAL								821,158	
IRVINE	UNIVERSITY OF CALIFORNIA IRVINE								
BERNS, MICHAEL W DEVELOPMENTAL AND CELL BIOLOGY	CELL DIVISION STUDIED BY LASER CTY		03-01-82 02-28-83	2	22200	5	R01 GM 23445-06	83,784	82
BODE, HANS R DEVELOPMENTAL AND CELL BIOLOGY	PATTERN FORMATION IN REGENERATING PIECES OF HYDRA CBY		04-01-82 03-31-83	1	22200	5	R01 GM 29130-02	37,792	82
BORER, PHILIP N CHEMISTRY	BASIC NUCLEIC ACID STRUCTURES: FORM AND INTERACTION BBCA		03-01-82 02-28-83	1	21100	5	R01 GM 24494-05	44,417	82
BRADLEY, TIMOTHY J DEVELOPMENTAL AND CELL BIOLOGY	CONTROL OF ION AND WATER TRANSPORT IN INSECT EPITHELIA CBY		04-01-82 03-31-83	0	22300	5	R01 GM 27919-03	61,212	82
CASERIO, MARJORIE C CHEMISTRY	ALKYLATION OF DISULFIDES--THIOSULFONIUM IONS MCHA		08-01-82 07-31-83	0	11920	5	R01 GM 27319-06	45,492	82
CHAMBERLIN, A RICHARD CHEMISTRY	SYNTHESIS OF ALKALOIDS BY POLYENE CYCLIZATION MCHA		02-01-82 01-31-83	2	11910	1	R01 GM 30073-01	58,435	82
HALL, JAMES E PHYSIOLOGY AND BIOPHYSICS	VOLTAGE-DEPENDENT CONDUCTANCE IN MEMBRANES PHY		04-01-82 03-31-83	2	22300	9	R01 GM 30657-04A1	71,631	82
HATFIELD, G WESLEY MICROBIOLOGY	TRANSLATIONAL CONTROL OF TRANSCRIPTION TERMINATION BIO		12-01-81 11-30-82	3	21320	5	R01 GM 24330-05	102,745	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
IRVINE	UNIVERSITY OF CALIFORNIA IRVINE									
LANYI, JANOS	TIME-RESOLVED INFRARED SPECTROSCOPY OF BACTERIORHODOPSIN									
PHYSIOLOGY AND BIOPHYSICS	BBCA		08-01-82 07-31-83	2	22500	1	R01 GM	30174-01	102,371	82
LANYI, JANOS K	CHARACTERIZATION OF A SODIUM PUMP IN H. HALOBIUM									
PHYSIOLOGY AND BIOPHYSICS	MBC		07-01-82 06-30-83	1	22300	5	R01 GM	29498-02	71,688	82
LENHOFF, HOWARD M	MODEL FOR BASEMENT MEMBRANE-EPITHELIAL CELL INTERACTIONS									
DEVELOPMENTAL AND CELL BIOLOGY	CBY		05-01-82 04-30-83	2	22200	1	R01 GM	30647-01	75,878	82
LEVY, BEATRIZ W	NUCLEOSOME STRUCTURE AND FUNCTION									
MOLECULAR BIOLOGY AND BIOCHEM	CTY		03-01-82 02-28-83	0	21600	5	R01 GM	27736-03	67,940	82
MARSH, J LAWRENCE	DEVELOPMENTAL CONTROL OF GENE EXPRESSION IN DROSOPHILA									
DEVELOPMENTAL AND CELL BIOLOGY	GEN		04-01-82 03-31-83	1	21700	5	R01 GM	28972-02	86,717	82
MC IVER, ROBERT T, JR	FOURIER TRANSFORM MASS SPECTROMETRY									
CHEMISTRY	SSS		12-01-81 11-30-82	0	12840	5	R01 GM	27039-03	57,771	82
MC LAUGHLIN, CALVIN S	COMPARATIVE STRUCTURE AND FUNCTION OF RIBOSOMES									
BIOLOGICAL CHEMISTRY	PC		03-01-82 02-28-83	3	21320	5	R01 GM	28772-15	146,513	82
MOLDAVE, KIVIE	GENETIC REGULATION OF TRANSLATION IN YEAST									
BIOLOGICAL CHEMISTRY	BIO		09-01-82 08-31-83	0	21320	5	R01 GM	27999-03	114,676	82
NUNN, WILLIAM D	CONTROL OF LIPID METABOLISM IN ESCHERICHIA COLI									
MOLECULAR BIOLOGY AND BIOCHEM	MBC		08-01-82 07-31-83	1	22400	5	R01 GM	22466-07	71,353	82
NUNN, WILLIAM D	CONTROL OF LIPID METABOLISM IN ESCHERICHIA COLI									
MOLECULAR BIOLOGY AND BIOCHEM	MBC		08-01-82 07-31-83	1	22400	3	R01 GM	22466-07S1	36,974	82
OVERMAN, LARRY E	GENERAL METHODS FOR SYNTHESIS OF BIOACTIVE AZACYCLICS									
CHEMISTRY	MCHA		08-01-82 07-31-83	2	11940	1	R01 GM	30859-01	81,032	82
POO, MU-MING	BIOPHYSICAL STUDIES OF PROTEIN DIFFUSION IN MEMBRANES									
PHYSIOLOGY AND BIOPHYSICS	CTY		05-01-82 04-30-83	2	22300	1	R01 GM	30666-01	133,705	82
SHEA, KENNETH J	TEMPLATE SYNTHESIS OF MACROMOLECULES									
CHEMISTRY	MCHA		12-01-81 05-31-83	0	11940	5	R01 GM	22995-06	51,176	82
SYPHERD, PAUL S	MODIFICATION OF ELONGATION FACTOR-1 DURING MORPHOGENESIS									
MICROBIOLOGY	MBC		07-01-82 06-30-83	2	21320	5	R01 GM	23999-06	99,218	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	IRG / PROJECT TITLE	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA										
IRVINE	UNIVERSITY OF CALIFORNIA IRVINE									
SYPHERD, PAUL S MICROBIOLOGY	POST-TRANSCRIPTIONAL REGULATION OF GENE EXPRESSION GEN		08-01-82	07-31-83	0	21320	5	R01 GM 26690-04	96,223	82
TAFT, ROBERT W CHEMISTRY	HYDROGEN BONDING AND IONIC SOLVATION BY NMR AND ICR BBCB		12-01-81	11-30-82	0	22500	5	R01 GM 14078-16	60,745	82
WARNER, ROBERT C MOLECULAR BIOLOGY AND BIOCHEM	STUDIES OF POLYNUCLEOTIDES AND NUCLEIC ACIDS PC		02-01-82	01-31-83	1	21600	5	R01 GM 28769-13	135,036	82
WASMUTH, JOHN J BIOLOGICAL CHEMISTRY	GENETIC MAPPING AND CLONING MAMMALIAN GENES MGN		12-01-81	11-30-82	2	21480	2	R01 GM 25339-04	83,203	82
WHITE, STEPHEN H PHYSIOLOGY AND BIOPHYSICS	STRUCTURAL STUDIES OF BILAYER SOLUTIONS BBCB		04-01-82	03-31-83	2	22550	2	R01 GM 26346-04	237,694	82
** 26 TOTAL									2,315,421	
LA JOLLA	AGOURON INSTITUTE									
ABELSON, JOHN N MOLECULAR GENETICS	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACIDS BIO		03-01-82	11-30-82	4	21750	7	R01 GM 31307-01	205,211	82
HAGLER, ARNOLD T NONE	A DYNAMIC SIMULATION OF LIGAND BINDING TO DHF-REDUCTASE BBCA		05-01-82	04-30-83	2	22600	1	R01 GM 30564-01	140,404	82
HAGLER, ARNOLD T NONE	WALTER IN BIOLOGICAL SYSTEM-MOLECULAR RECGONITON BBCA		01-01-82	12-31-82	1	22600	7	R01 GM 30793-01	58,692	82
SIMON, MELVIN I NONE	GENETIC AND MOLECULAR MAPPING OF THE MOUSE GENOME GEN		03-01-82	02-28-83	1	21480	5	R01 GM 29797-02	192,629	82
** 4 TOTAL									596,936	

TABLE 5. RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
LA JOLLA	SALK INSTITUTE FOR BIOLOGICAL STUDIES								
BOURGEOIS-COHN, SUZANNE	MECHANISMS OF PROTEIN-NUCLEIC ACID INTERACTIONS								
REGULATORY BIOLOGY LABORATORY	MG		09-01-82 08-31-83	3	21750	5	R01 GM 25617-05	155,295	82
BOURGEOIS-COHN, SUZANNE	STUDIES OF REGULATION IN E. COLI EXTENDED TO LYMPHOMAS								
REGULATORY BIOLOGY LABORATORY	GEN		12-01-81 11-30-82	1	21750	5	R01 GM 20868-09	223,022	82
EVANS, RONALD M	HORMONAL REGULATION OF GENE EXPRESSION IN MAMMALIAN CELL								
TUMOR VIROLOGY LABORATORY	MBY		04-01-82 03-31-83	2	21750	2	R01 GM 26444-04	145,366	82
ORGEL, LESLIE E	EVOLUTION OF GENETIC SPECIFICITY								
CHEMICAL EVOLUTION LAB	BNP		07-01-82 06-30-83	2	21310	2	R01 GM 13435-16A1	118,186	82
PFAHL, MAGNUS	GENETIC ANALYSIS OF LAC REPRESSOR AND OPERATOR								
REGULATORY BIOLOGY LABORATORY	MBC		01-01-82 12-31-82	2	21750	5	R01 GM 23671-06	92,099	82
WAHL, GEOFFREY M	DRUG RESISTANCE AND GENE AMPLIFICATION IN EUKARYOTES								
TUMOR VIROLOGY LABORATORY	MGN		04-01-82 03-31-83	0	21750	5	R01 GM 27754-03	122,167	82
** 6 TOTAL								856,135	
LA JOLLA	SCRIPPS CLINIC AND RESEARCH FOUNDATION								
CARSON, DENNIS A	ADENOSINE DEAMINASE DEFICIENCY: GENETICS AND IMMUNOLOGY								
CLINICAL RESEARCH	MGN		07-01-82 06-30-83	4	21400	2	R01 GM 23200-07	145,824	82
GOTTESFELD, JOEL M	ISOLATION OF 5S GENE CHROMATIN								
CELLULAR BIOLOGY	GEN		08-01-82 07-31-83	2	21600	2	R01 GM 26453-04	159,205	82
HATEFI, YOUSSEF	ELECTRON TRIBUTARIES OF THE RESPIRATORY CHAIN								
BIOCHEMISTRY	SSS		08-01-82 07-31-83	3	22450	5	R01 GM 24887-05	110,219	82
HATEFI, YOUSSEF	MITOCHONDRIAL NADH AND SUCCINATE DEHYDROGENASE								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	0	22450	5	R01 GM 27812-03	71,277	82
HOCH, JAMES A	GENETIC CONTROL OF DEVELOPMENT								
CELLULAR BIOLOGY	MG		07-01-82 06-30-83	4	21700	2	R01 GM 19416-11	220,919	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
LA JOLLA	SCRIPPS CLINIC AND RESEARCH FOUNDATION								
JOHNSON, ERIC F / BIOCHEMISTRY	CYTOCHROME P-450 POLYMORPHISM / PB		08-01-82 07-31-83	2	11760	1	R01 GM 31001-01	131,973	82
LERNER, RICHARD A / IMMUNOPATHOLOGY	THE CELLULAR SLIME MOLD AS A MODEL FOR HUMAN DEVELOPMENT / CBY		05-01-82 04-30-83	1	22200	5	R01 GM 22500-07	142,474	82
OGATA, RONALD T / IMMUNOPATHOLOGY	STRUCTURE AND EXPRESSION OF COMPLEMENT GENES / ALY		04-01-82 03-31-83	1	21750	5	R01 GM 29831-02	116,522	82
SEALE, RONALD L / CELLULAR BIOLOGY	NUCLEOSOME-DNA INTERACTIONS IN CHROMATIN REPLICATION / CTY		03-01-82 02-28-83	1	21600	5	R01 GM 27950-03	167,703	82
ULEVITCH, RICHARD J	MOLECULAR PATHOLOGY OF LPS-INDUCED SHOCK AND DIC / SAT		03-01-82 02-28-83	0	13420	5	R01 GM 28485-02	82,193	82
WHITELEY, JOHN M / BIOCHEMISTRY	PTERIDINE DEPENDENT HYDROXYLASE FROM LIVER AND BRAIN / PC		04-01-82 03-31-83	4	22400	2	R01 GM 22125-07	125,665	82
** 11 TOTAL								1,473,974	
LA JOLLA	UNIVERSITY OF CALIFORNIA SAN DIEGO								
AKESON, WAYNE H / SURGERY	EXERCISE EFFECTS ON TENDON REPAIR / SSS		07-01-81 03-31-83	0	13420	5	R01 GM 24900-05	82,598	81
ALLISON, WILLIAM S / CHEMISTRY	STRUCTURAL STUDIES ON THE ENERGY TRANSDUCING ATPASE / PB		06-01-82 05-31-83	3	22450	2	R01 GM 16974-13	106,304	82
BAKER, BRUCE S / NONE	GENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA / GEN		07-01-82 06-30-83	0	21700	5	R01 GM 23345-07	153,249	82
BAKER, BRUCE S / NONE	GENETIC CONTROL OF RECOMBINATION IN DROSOPHILA / GEN		04-01-82 03-31-83	1	21700	5	R01 GM 26200-04	34,866	82
BRODY, STUART / BIOLOGY	BIOCHEMISTRY OF CIRCADIAN RHYTHMS IN NEUROSPORA / MBC		12-01-81 11-30-82	2	22200	2	R01 GM 21842-07	102,125	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

CALIFORNIA

LA JOLLA — UNIVERSITY OF CALIFORNIA SAN DIEGO

INVESTIGATOR DEPARTMENT	PROJECT TITLE	IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
BRUNTON, LAURENCE L MEDICINE	DRUG MODULATED EXTRUSION OF CELLULAR CYCLIC AMP	BIO	12-01-81 11-30-82	2	11770	2	R01 GM 25819-04	70,241	82
BUTLER, WARREN L BIOLOGY	PHOTORECEPTOR PIGMENTS IN PHOTORESPONSIVE ORGANISMS	BBCA	07-01-82 06-30-83	0	22200	5	R01 GM 20648-09	69,935	82
CARPENTER, ADELAIDE T BIOLOGY	EM OF RECOMBINATION MUTANTS IN DROSOPHILA	GEN	07-01-82 06-30-83	4	21600	2	R01 GM 23338-07	105,845	82
DENNIS, EDWARD A CHEMISTRY	ACTION OF LIPOLYTIC ENZYMES	PC	06-01-82 05-31-83	3	22400	5	R01 GM 20501-08	100,771	82
FARRON-FURSTENTHAL, F BIOLOGY	REGULATION OF NUCLEAR PROTEIN KINASES	MBY	05-01-82 04-30-83	0	21600	5	R01 GM 28699-03	68,408	82
FEHER, GEORGE PHYSICS	SPECTROSCOPIC INVESTIGATIONS OF BIOLOGICAL SYSTEMS	BBCA	07-01-82 06-30-83	3	22500	5	R01 GM 13191-18	169,650	82
FIRTEL, RICHARD A NONE	GENE STRUCTURE AND TRANSCRIPTIONAL REGULATION	MBY	09-01-82 08-31-83	2	21750	5	R01 GM 24279-06	192,393	82
FIRTEL, RICHARD A BIOLOGY	ANALYSIS OF DEVELOPMENTALLY REGULATED GENES	GEN	04-01-82 03-31-83	4	21750	1	R01 GM 30693-01	102,948	82
FRIEDMANN, THEODORE PEDIATRICS	STUDIES OF MAMMALIAN HGPRT GENES	MGN	08-01-82 07-31-83	0	21400	5	R01 GM 28223-03	166,362	82
GEIDUSCHEK, E PETER BIOLOGY	NUCLEIC ACIDS AND NUCLEOPROTEINS	MG	09-01-82 08-31-83	2	21750	5	R01 GM 18386-13	228,576	82
GOODMAN, MURRAY CHEMISTRY	MODEL SYSTEMS FOR STUDIES OF PEPTIDE CONFORMATIONS	BBCA	04-01-82 03-31-83	2	22500	2	R01 GM 18694-09A1	84,874	82
GUINEY, DONALD G MEDICINE	MECHANISM OF PLASMID DNA TRANSFER IN BACTERIA	MG	09-01-82 08-31-83	0	21280	5	R01 GM 28924-03	61,647	82
HAYASHI, MASAKI BIOLOGY	SYNTHESIS OF INFECTIOUS BACTERIOPHAGE PARTICLES	PC	05-01-82 04-30-83	0	21320	5	R01 GM 12934-18	92,680	82
HOSTETLER, KARL Y MEDICINE	PATHOGENESIS OF DRUG-INDUCED LIPIDOSIS	PC	04-01-82 03-31-83	3	11790	5	R01 GM 24979-05	84,473	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
LA JOLLA			UNIVERSITY OF CALIFORNIA SAN DIEGO							
KAMEN, MARTIN D / CHEMISTRY	BBCA		MOLECULAR BASIS FOR FUNCTION OF IRON PROTEINS / 09-01-81 11-30-82	0	22500	5	R01 GM	18528-21	115,124	81
KEARNS, DAVID R / CHEMISTRY	BBCA		STRUCTURAL STUDIES OF RNA / 12-01-81 11-30-82	0	21100	5	R01 GM	22969-07	90,395	82
KRAUT, JOSEPH / CHEMISTRY	BBCB		CRYSTALLOGRAPHIC STUDY OF BIOLOGICAL MOLECULES / 01-01-82 12-31-82	4	22550	2	R01 GM	10928-20	142,270	82
LINDSLEY, DAN L / BIOLOGY	GEN		GAMETOGENESIS IN DROSOPHILA / 06-01-82 05-31-83	2	21700	2	R01 GM	26810-04	159,992	82
MEYER, TERRANCE E / CHEMISTRY	PB		MOLECULAR BASIS FOR FUNCTION OF IRON PROTEINS / 09-01-82 11-30-82	0	22500	3	R01 GM	18528-21S1	29,166	82
MILLER, ARNOLD L / NEUROSCIENCES	CBY		STUDIES OF LYSOSOMAL GLYCOPROTEINS IN SLIME MOLD / 09-01-82 08-31-83	0	22400	5	R01 GM	29262-03	83,028	82
NGUYEN-HUU, X / BIOLOGY	SSS	1	AUTOMATIC ANALYSIS OF 2-DIMENSIONAL ELECTROPHEROGRAMS / 08-01-82 07-31-83	2	12820	2	R01 GM	22940-07	120,337	82
NGUYEN-HUU, XUONG / BIOLOGY	BBCB		COMPUTER CONTROLLED MULTIREFLECTION DIFFRACTOMETER / 08-01-82 07-31-83	0	12840	2	R01 GM	20102-10	175,794	82
PETERS, RICHARD M / SURGERY	SAT		INTERSTITIAL TISSUE AND ONCOTIC PRESSURE IN TRAUMA / 07-01-82 06-30-83	4	13410	2	R01 GM	24901-06	117,571	82
PINON, RAMON, JR / NONE	CBY		FOLDED CHROMOSOMES FROM MITOTIC AND MEIOTIC CELLS / 08-01-81 12-31-82	0	21600	5	R01 GM	26742-03	84,517	81
SCHEFFLER, IMMO E / BIOLOGY	MGN		GENETICS AND BIOCHEMISTRY OF MAMMALIAN CELLS IN CULTURE / 09-01-82 08-31-83	4	21750	2	R01 GM	18835-12	105,038	82
SEEGMILLER, JARVIS E / MEDICINE	SRC		HUMAN BIOCHEMICAL GENETICS PROGRAM / 12-01-81 11-30-82	3	21916	*5	P50 GM	17702-12	561,966	82
SINGER, S JONATHAN / BIOLOGY	CTY		MOLECULAR APPROACHES TO CELL ULTRASTRUCTURE / 05-01-82 04-30-83	3	22300	5	R01 GM	15971-15	181,119	82
SUBRAMANI, SURESH / BIOLOGY	EVR		MECHANISMS FOR GENETIC RECOMBINATION IN MAMMALIAN CELLS / 07-01-82 06-30-83	2	21200	1	R01 GM	31253-01	82,837	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
LA JOLLA	UNIVERSITY OF CALIFORNIA SAN DIEGO							
TAYLOR, PALMER W MEDICINE	KINETICS OF DRUG MACROMOLECULE COMPLEX FORMATION NLS	01-01-82 12-31-82	2	11870	5	R01 GM 18360-11	103,201	82
TAYLOR, PALMER W MEDICINE	PHARMACOLOGY OF MEMBRANE ASSOCIATED RECEPTORS NLS	07-01-82 06-30-83	2	11870	5	R01 GM 24337-06	70,856	82
TAYLOR, SUSAN S CHEMISTRY	PROTEIN KINASE: PRIMARY STRUCTURE AND C-AMP INTERACTION PB	05-01-82 04-30-83	3	22500	5	R01 GM 19301-11	134,545	82
TSENG, BEN Y MEDICINE	RNA PRIMING OF EUKARYOTE DNA SYNTHESIS MBY	06-01-82 05-31-83	1	21200	5	R01 GM 29091-02	83,955	82
VOLCANI, BENJAMIN E MARINE BIOLOGY RESEARCH DIV	BIOCHEMICAL STUDIES OF SILICEOUS SKELETAL FORMATION GMB	05-01-82 04-30-83	1	22200	5	R01 GM 08229-22	156,255	82
WENKERT, ERNEST CHEMISTRY	ALKALOID SYNTHESIS MCHA	09-01-82 08-31-83	1	11910	5	R01 GM 29232-03	140,454	82
WILSON, KENT R CHEMISTRY	ION TRANSPORT THROUGH MEMBRANE CHANNELS BBCB	07-01-82 06-30-83	1	22600	5	R01 GM 29750-02	59,176	82
ZIMM, BRUNO H CHEMISTRY	NUCLEIC ACIDS AND CHROMOSOMAL DNA BBCA	01-01-82 12-31-82	4	21100	2	R01 GM 11916-19	127,668	82
ZYSKIND, JUDITH W BIOLOGY	DNA INITIATION AND TERMINATION IN BACTERIA MBY	04-01-81 09-30-82	0	21200	5	R01 GM 21978-06	69,446	81
** 42 TOTAL							5,072,655	
LOMA LINDA	LOMA LINDA UNIVERSITY							
TAYLOR, BARRY L BIOCHEMISTRY	SENSORY TRANSDUCTION IN BACTERIA MBC	09-01-82 08-31-83	1	22200	5	R01 GM 29481-02	85,852	82
** 1 TOTAL							85,852	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA									
LOS ANGELES	CHILDREN'S HOSPITAL OF LOS ANGELES								
ALLMAN, FRANK D PEDIATRICS	HYPERMETABOLISM AFTER SEVERE HEAD TRAUMA IN CHILDREN SAT	07-01-82 06-30-83	1	13450	5	R23 GM	29617-02	42,734	82
JONES, PETER A PEDIATRICS	DNA METHYLATION AND DEMETHYLATION IN CYCLING CELLS MBY	07-01-82 06-30-83	2	21200	1	R01 GM	30892-01	96,441	82
** 2 TOTAL								139,175	
LOS ANGELES	UNIVERSITY OF CALIFORNIA LOS ANGELES								
BEZANILLA, FRANCISCO J PHYSIOLOGY	ELECTROPHYSIOLOGICAL STUDIES OF VOLTAGE GATED CHANNELS PHY	08-01-82 07-31-83	3	22400	5	R01 GM	30376-02	95,970	82
BOYER, PAUL D CHEMISTRY	BIOLOGICAL ENERGY TRANSDUCING MECHANISMS BIO	05-01-82 04-30-83	2	22450	5	R01 GM	11094-20	135,320	82
CALAME, KATHRYN L BIOLOGICAL CHEMISTRY	TRANSCRIPTION OF IMMUNOGLOBULIN HEAVY CHAIN GENES MGN	12-01-81 11-30-82	1	21750	5	R01 GM	29361-02	86,675	82
CHO, ARTHUR K PHARMACOL & EXPER THERAPEUTICS	NITROGEN OXIDATION IN DRUG METABOLISM PHRA	07-01-81 01-31-83	0	11860	5	R01 GM	26024-03	79,335	81
CIANI, SERGIO PHYSIOLOGY	SELECTIVE ION PERMEATION IN EXCITABLE CELLS PHY	12-01-81 11-30-82	0	22300	5	R01 GM	27042-06	70,120	82
CLARKE, STEVEN G NONE	CONTROL OF EUCARYOTIC MEMBRANE FUNCTION BY METHYLATION PC	12-01-81 11-30-82	4	22300	2	R01 GM	26020-04	91,234	82
CRAM, DONALD J CHEMISTRY	HOST MOLECULES THAT COMPLEX AND CATALYZE MCHA	12-01-81 11-30-82	2	11920	5	R01 GM	12640-18	111,404	82
DE LANGE, ROBERT J BIOLOGICAL CHEMISTRY	NUCLEOSOMAL STRUCTURE, ASSEMBLY, AND FUNCTION BIO	12-01-81 11-30-82	3	21600	5	R01 GM	28677-02	138,459	82
DIAMOND, JARED M PHYSIOLOGY	WATER TRANSPORT ACROSS EPITHELIAL MEMBRANES PHY	04-01-82 03-31-83	1	22300	5	R01 GM	14772-15	125,898	82

CALIFORNIA

LOS ANGELES — UNIVERSITY OF CALIFORNIA LOS ANGELES

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
DICKERSON, RICHARD E NONE	STRUCTURES AND INTERACTIONS OF DNA AND PROTEINS	BBCA		09-01-82	08-31-83	1	21100	3	R01 GM 30543-02S1	28,052	82
DICKERSON, RICHARD E CHEMISTRY	STRUCTURES AND INTERACTIONS OF DNA AND PROTEINS	BBCA		09-01-82	08-31-83	1	21100	5	R01 GM 30543-02	167,242	82
EISENBERG, DAVID S CHEMISTRY	LA COMPUTER GRAPHICS TERMINAL FOR MOLECULAR BIOLOGY	SSS		09-01-82	08-31-83	0	12900	5	P41 GM 29786-03	20,181	82
EISENBERG, DAVID S CHEMISTRY	STRUCTURE AND ACTION OF MULTISUBUNIT ENZYMES	BBCB		05-01-82	04-30-83	1	22550	5	R01 GM 16925-14	176,839	82
EISENMAN, GEORGE PHYSIOLOGY	ION PERMEATION IN CHANNELS, CARRIERS AND NERVES	PHY		07-01-82	06-30-83	4	22300	2	R01 GM 24749-13	78,096	82
FOOTE, CHRISTOPHER S CHEMISTRY	OXIDATION OF MODEL BIOLOGICAL SYSTEMS	BBCA		06-01-82	05-31-83	0	11920	5	R01 GM 20080-10	69,752	82
FULCO, ARMAND J LAB/BIOMOLECULAR/CELLULAR SCIS	SOLUBLE CYTOCHROME P-450 HYDROXYLASES FROM BACTERIA	PB		08-01-82	07-31-83	3	22400	2	R01 GM 23913-05A1	114,543	82
GATTI, RICHARD A PATHOLOGY	MHC AND CANCER SUSCEPTIBILITY GENES IN MAN	MGN		09-01-82	08-31-83	0	21400	5	R01 GM 29788-03	118,962	82
GREENFIELD, MOSES A RADIOLOGICAL SCIENCES	IN VIVO BONE STUDY USING ULTRASOUND/PHOTON ABSORPTION	RNM		12-01-81	11-30-82	0	12910	5	R01 GM 22338-06	32,987	82
GRUNSTEIN, MICHAEL BIOLOGY	HISTONE GENE EXPRESSION IN DEVELOPING SEA URCHIN EMBRYO	MBY		01-01-82	12-31-82	2	21600	5	R01 GM 23674-06	115,554	82
GUNSALUS, ROBERT P MICROBIOLOGY	INTERACTION OF TRP REPRESSOR WITH TRP OPERATOR DNA	MG		09-01-82	08-31-83	1	21750	5	R01 GM 29456-02	77,134	82
HERSCHMAN, HARVEY R LAB/BIOMOLECULAR/CELLULAR SCIS	INITIATION OF CELLULAR PROLIFERATION	CTY		01-01-82	12-31-82	2	22200	5	R01 GM 24797-05	105,429	82
LAKE, JAMES A BIOLOGY	SPATIAL ARRANGEMENT OF FUNCTIONAL SITES IN RIBOSOMES	MBY		12-01-81	11-30-82	4	21320	2	R01 GM 24034-06	112,923	82
LATIES, GEORGE G BIOLOGY	MEMBRANE PERMEABILITY AS A REGULATORY ELEMENT	BIO		09-01-81	11-30-82	0	22300	5	R01 GM 19807-10	79,318	81

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
LOS ANGELES			UNIVERSITY OF CALIFORNIA LOS ANGELES						
MARTINSON, HAROLD G CHEMISTRY	BIO		NUCLEOSOME FUNCTION 12-01-81 11-30-82	3	21600	5	R01 GM 28675-02	51,867	82
MC ENTEE, KEVIN BIOLOGICAL CHEMISTRY	MG		BIOCHEMISTRY OF RECA PROTEIN STRUCTURE, FUNCTION/CONTROL 07-01-82 06-30-83	1	21200	5	R01 GM 29558-02	102,112	82
NIERLICH, DONALD P BACTERIOLOGY	MBC		REGULATION OF RNA SYNTHESIS 09-01-79 12-31-82	0	21750	5	R01 GM 15381-12	57,888	79
PAULSON, JAMES C BIOLOGICAL CHEMISTRY	PC		MAMMALIAN SIALYLTRANSFERASES 04-01-82 03-31-83	0	22410	5	R01 GM 27904-03	64,593	82
SALSER, WINSTON A BIOLOGY	GEN		NUCLEOTIDE SEQUENCING METHODS FOR ONCOGENIC VIRUSES 03-01-82 02-28-83	2	21750	5	R01 GM 18586-11	97,968	82
SCHUMAKER, VERNE N CHEMISTRY	BBCB		MACROMOLECULES OF CIRCULATORY AND GENETIC IMPORTANCE 09-01-82 08-31-83	3	22500	5	R01 GM 13914-18	119,878	82
SIGMAN, DAVID S BIOLOGICAL CHEMISTRY	BIO		METAL ION FUNCTION IN ENZYMES AND RECEPTOR PROTEINS 12-01-81 11-30-82	2	22400	5	R01 GM 21199-14	85,438	82
STEVENS, ROBERT V CHEMISTRY	MCHA		THE SYNTHESIS OF ALKALOIDS 07-01-82 06-30-83	0	11910	5	R01 GM 28122-03	97,205	82
SWEET, ROBERT M CHEMISTRY	BBCB		X-RAY DIFFRACTION STUDIES OF PHYCOBILISOME ASSEMBLY 01-01-82 12-31-82	0	22550	5	R01 GM 27076-03	64,544	82
TOBIN, ELAINE M BIOLOGY	CTY		PHYTOCHROME REGULATION OF SPECIFIC MRNA SPECIES 08-01-82 07-31-83	4	21700	2	R01 GM 23167-07	118,285	82
VALENTINE, JOAN S CHEMISTRY	BBCA		THE HISTIDYL IMIDAZOLE LIGAND IN METALLOPROTEINS 01-01-82 12-31-82	1	22500	5	R01 GM 28222-03	85,255	82
WEISS, RICHARD L CHEMISTRY	PB		15N-NUCLEAR MAGNETIC RESONANCE IN BIOLOGY 07-01-82 06-30-83	2	22500	1	R01 GM 31145-01	79,359	82
WEISS, RICHARD L CHEMISTRY	MBC		METABOLIC ORGANIZATION IN NEUROSPORA 04-01-82 03-31-83	1	22450	5	R01 GM 28864-02	87,141	82
WICKNER, WILLIAM T BIOLOGICAL CHEMISTRY	MBC		THE ASSEMBLY OF PROTEINS INTO BIOLOGICAL MEMBRANES 07-01-82 06-30-83	1	22300	5	R01 GM 23377-07	119,659	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
LOS ANGELES	UNIVERSITY OF CALIFORNIA LOS ANGELES								
WILCOX, GARY L	MOLECULAR BASIS OF CONTROL IN THE L-ARABINOSE OPERON								
MICROBIOLOGY	MG		08-01-82 07-31-83	4	21750	1	R01 GM 30896-01	109,838	82
WILCOX, GARY L	BIOCHEMICAL GENETICS OF BACTERIAL PLANT PATHOGENS								
MICROBIOLOGY	MG		05-01-82 04-30-83	2	21750	1	R01 GM 30491-01	83,098	82
WISNIESKI, BERNADINE J	PHYSICAL STRUCTURE OF ANIMAL CELL MEMBRANES								
MICROBIOLOGY	BBCB		12-01-81 11-30-82	4	22300	2	R01 GM 22240-07	102,108	82
** 39 TOTAL								3,757,663	
LOS ANGELES	UNIVERSITY OF SOUTHERN CALIFORNIA								
BAU, ROBERT	ABSOLUTE CONFIGURATION STUDIES BY NEUTRON DIFFRACTION								
CHEMISTRY	BBCA		07-01-82 06-30-83	2	22550	1	R01 GM 29533-01A1	53,321	82
DEONIER, RICHARD C	SPECIALIZED RECOMBINATION IN THE E COLI CHROMOSOME								
MOLECULAR BIOLOGY	MG		01-01-82 12-31-82	3	21780	5	R01 GM 24589-05	99,070	82
FARLEY, ROBERT A	THE STRUCTURE OF (NA-K) ATPASE								
PHYSIOLOGY AND BIOPHYSICS	PB		04-01-82 03-31-83	2	22300	1	R01 GM 28673-01A1	71,547	82
FIFE, THOMAS H	ENZYMATIC AND NONENZYMATIC REACTIONS OF ACYL PHOSPHATES								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	0	22400	5	R01 GM 16564-14	60,121	82
FOURNIER, RAYMOND E	GENETIC ANALYSIS OF CELL-TYPE-SPECIFIC FUNCTIONS								
MICROBIOLOGY	MGN		04-01-82 03-31-83	2	21480	2	R01 GM 26449-04	133,609	82
GOODMAN, MYRON F	ERROR CORRECTION IN DNA SYNTHESIS: A BIOCHEMICAL STUDY								
BIOLOGICAL SCIENCES	MG		09-01-82 08-31-83	3	21250	5	R01 GM 21422-07	126,554	82
KELLY, DOUGLAS E	FREEZE-FRACTURE OF DESMOSOMAL AND TRIADIC JUNCTIONS								
ANATOMY	MBY		09-01-82 08-31-83	0	22300	5	R01 GM 27592-03	74,819	82
LEE, AMY SHIU	HISTONE GENE EXPRESSION IN THE MAMMALIAN CELL CYCLE								
BIOCHEMISTRY	MBY		09-30-82 08-31-83	2	21750	31	R01 GM 31138-01	93,576	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
LOS ANGELES	UNIVERSITY OF SOUTHERN CALIFORNIA								
MARSH, DONALD J PHYSIOLOGY AND BIOPHYSICS	OSCILLATIONS IN ARTERIAL BLOOD PRESSURE CVB		09-01-82 08-31-83	0	12200	5 R01 GM	28398-03	115,899	82
MC KENNA, CHARLES E CHEMISTRY	BIOORGANIC STUDIES OF NITROGENASE SSS		07-02-82 06-30-83	2	22400	1 R01 GM	31716-01	132,442	82
MOSTELLER, RAYMOND D BIOCHEMISTRY	REGULATION OF PROTEIN DEGRADATION IN ESCHERICHIA COLI MBC		04-01-82 03-31-83	0	22500	5 R01 GM	23292-06	80,271	82
OLAH, GEORGE A CHEMISTRY	HYDROCARBONS & THEIR DERIVATIVES AS BIOALKYLATING AGENTS BBCA		07-01-82 06-30-83	0	11920	5 R01 GM	24832-06	142,367	82
PELLEGRINI, MARIA C MOLECULAR BIOLOGY	STRUCTURE-FUNCTION RELATIONSHIPS IN RIBOSOMES MBY		05-01-82 04-30-83	2	21320	1 R01 GM	30443-01	82,193	82
PELLEGRINI, MARIA C MOLECULAR BIOLOGY	EXPRESSION AND ORGANIZATION OF RIBOSOMAL PROTEIN GENES GEN		01-01-82 12-31-82	1	21700	5 R01 GM	24572-05	88,600	82
RAIJMAN, LUISA J BIOCHEMISTRY	THE KINETIC PROPERTIES OF ENZYMES IN SITU BIO		08-01-82 07-31-83	1	22400	5 R01 GM	29432-02	64,150	82
SEGAL, GERALD A CHEMISTRY	CIRCULAR DICHROISM SPECTRA IN THE VACUUM ULTRAVIOLET BBCA		04-01-82 03-31-83	2	22500	1 R01 GM	30114-01	54,546	82
STEPHENS, PHILIP J CHEMISTRY	CHIROPTICAL SPECTROSCOPY OF METALLOPROTEINS BBCA		02-01-82 01-31-83	3	22500	5 R01 GM	28386-02	78,549	82
WARSHEL, ARIEH CHEMISTRY	THEORETICAL STUDIES OF ENZYMATIC REACTIONS BBCA		01-01-82 12-31-82	0	22600	5 R01 GM	24492-05	54,356	82
YATES, FRANCIS E BIOMEDICAL ENGINEERING	CENTER FOR SYSTEMS ANALYSIS IN PATHOPHYSIOLOGY SRC		05-01-82 04-30-83	1	12200	5 P01 GM	23732-06	582,118	82
** 19 TOTAL								2,188,108	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
MENLO PARK	SRI INTERNATIONAL									
EDMONDS, PETER D	MECHANISMS OF BIOEFFECTS OF ULTRASONIC RADIATION									
BIOENGINEERING RESEARCH CENTER	RNM		02-01-82 01-31-83	1	12910	5	R01 GM	28562-02	139,458	82
GREEN, PHILIP S	ORTHOGRAPHIC ULTRASONIC TRANSMISSION IMAGING									
BIOENGINEERING RES CENTER	RNM		08-01-82 07-31-83	2	12910	1	R01 GM	30890-01	84,994	82
JOHNSON, PAUL H	RESTRICTION ENDONUCLEASE MECHANISMS AND DNA STRUCTURE									
BIOCHEMISTRY	BBCA		01-01-82 12-31-82	0	21200	7	R01 GM	30553-01	149,187	82
MILLER, JON P	MAPPING CAMP AND CGMP BINDING SITES ON PROTEIN KINASES									
BIO-ORGANIC CHEMISTRY LAB	BIO		12-01-81 11-30-82	2	22400	2	R01 GM	25697-04	146,453	82
TANABE, MASATO	STEREOSPECIFIC SYNTHESIS OF STEROL SIDE CHAINS									
BIO-ORGANIC CHEMISTRY	SSS		04-01-81 02-28-83	0	11910	5	R01 GM	27058-03	89,694	81
TYSON, CHARLES A	COMPARATIVE IN VITRO METABOLIC SYSTEMS									
TOXICOLOGY LABORATORY	PHRA		09-01-82 08-31-83	0	11860	5	R01 GM	28158-03	110,724	82
VOLD, BARBARA S	ROLE OF TRNA IN CELLULAR REGULATORY MECHANISMS									
BIOMEDICAL RESEARCH	MG		09-01-82 08-31-83	3	21320	5	R01 GM	29231-03	161,721	82
** 7 TOTAL									882,231	
NORTHRIDGE	CALIFORNIA STATE UNIVERSITY NORTHRIDGE									
HSU, I-NAN	CRYSTALLOGRAPHIC STUDIES OF PENICILLOPEPSIN									
CHEMISTRY	BBCB		07-01-82 06-30-83	0	22550	5	R01 GM	26680-03	45,814	82
LEFEVRE, GEORGE, JR	COMPARATIVE STUDIES ON INDUCED MUTATION IN DROSOPHILA									
BIOLOGY	GEN		12-01-81 11-30-82	0	21250	5	R01 GM	13631-17	108,695	82
** 2 TOTAL									154,509	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA							
PASADENA	CALIFORNIA INSTITUTE OF TECHNOLOGY						
ATTARDI, GIUSEPPE / NONE	GENE EXPRESSION AND CONTENT IN CELL DIFFERENTIATION / GEN	01-01-82 12-31-82	1	21280	5 R01 GM 11726-19	354,171	82
BALDESCHWIELER, JOHN D / NONE	PAC STUDY OF PHOSPHOLIPID VESICLE TARGETING IN VIVO / BBCB	12-01-81 11-30-82	2	22500	2 R01 GM 21111-09A1	125,149	82
BROKAW, CHARLES J / NONE	MECHANISMS OF MOVEMENT OF SIMPLE SPERM FLAGELLA / CBY	08-01-82 07-31-83	0	22250	5 R01 GM 18711-11	104,336	82
BROKAW, CHARLES J / NONE	COMPUTER SIMULATION OF SLIDING FILAMENT SYSTEMS / CBY	04-01-82 03-31-83	1	22250	5 R01 GM 21931-07	20,531	82
CAMPBELL, JUDITH L / NONE	ENZYMATIC MECHANISMS OF DNA REPLICATION / MG	09-01-82 08-31-83	3	21200	5 R01 GM 25508-05	95,445	82
CHAN, SUNNEY I / NONE	STUDIES OF LIPID-LIPID AND LIPID-PROTEIN INTERACTIONS / BBCB	09-01-82 08-31-83	2	22300	5 R01 GM 22432-08	211,379	82
DAVIDSON, ERIC H / NONE	SEQUENCE STRUCTURE OF EUKARYOTIC GENOME / SSS	06-01-82 05-31-83	1	21600	5 P01 GM 20927-08	352,075	82
DAVIDSON, NORMAN R / NONE	PHYSICIAL CHEMISTRY OF NUCLEIC ACIDS / CTY	06-01-82 05-31-83	3	21600	2 R01 GM 10991-23	310,650	82
DERVAN, PETER B / NONE	MOLECULAR RECOGNITION OF DNA & RNA BY POLYINTERCALATORS / BBCA	04-01-82 03-31-83	0	21100	5 R01 GM 27681-03	69,265	82
EVANS, DAVID A / NONE	ANTICANCER AND NEUROTOXIC ALKALOID SYNTHESIS / MCHA	04-01-82 03-31-83	3	11910	2 R01 GM 26111-07	138,481	82
IRELAND, ROBERT E / NONE	3-ACYLTETRAMIC ACID ANTIBIOTIC SYNTHESIS / MCHA	02-01-82 01-31-83	2	11940	1 R01 GM 30335-01	70,680	82
LESTER, H ALLEN / NONE	INTRACELLULAR TRANSMITTERS, BIOPHYSICAL STUDIES / NEUB	04-01-82 03-31-83	1	22300	5 R01 GM 29836-02	64,447	82
MANATT, STANLEY L / NONE	USE OF NMR IN SOLID-PHASE PEPTIDE SYNTHESES / MCHA	03-01-82 02-28-83	1	11940	5 R01 GM 25908-02	88,117	82
MARSH, RICHARD E / NONE	CRYSTAL STRUCTURE STUDIES / BBCA	02-01-82 01-31-83	2	22550	2 R01 GM 16966-13	74,488	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
PASADENA	CALIFORNIA INSTITUTE OF TECHNOLOGY							
MEYEROWITZ, ELLIOT M / NONE	GENE STRUCTURE AND FUNCTION IN ANIMAL DEVELOPMENT / GEN	07-01-82 06-30-83	0	21700	5	R01 GM 28075-03	107,820	82
MITCHELL, HERSCHEL K / NONE	BIOCHEMICAL GENETICS OF DEVELOPMENT IN DROSOPHILA / GEN	04-01-82 03-31-83	2	21700	2	R01 GM 25966-04	102,300	82
PARKER, CARL S / NONE	SPECIFIC IN VITRO TRANSCRIPTION OF STRUCTURAL GENES / GEN	09-01-82 08-31-83	1	21750	5	R01 GM 29430-02	95,109	82
PETERSEN, NANCY S / NONE	SURVIVAL FROM HEAT SHOCK AS A SCREEN / GEN	07-01-82 06-30-83	1	22200	1	R01 GM 30442-01	43,038	82
REVEL, JEAN P / NONE	MOLECULAR BASIS OF SPECIFICITY IN CELLULAR MEMBRANES / SSS	03-01-82 02-28-83	1	22300	3	P01 GM 06965-23S1	142,305	82
REVEL, JEAN-PAUL / NONE	MOLECULAR BASIS OF SPECIFICITY IN CELLULAR MEMBRANES / SSS	03-01-82 02-28-83	1	22300	5	P01 GM 06965-23	563,336	82
** 19 TOTAL							3,133,122	
PASADENA	HUNTINGTON MEDICAL RESEARCH INSTITUTES							
MC CREERY, DOUGLAS B / NONE	SPINAL AND SUPRASPINAL MECHANISMS OF ELECTROANALGESIA / SAT	07-01-82 06-30-83	0	13700	5	R01 GM 32104-02	59,427	82
** 1 TOTAL							59,427	
RIVERSIDE	UNIVERSITY OF CALIFORNIA RIVERSIDE							
HAIMO, LEAH T / BIOLOGY	THE POLARITY AND FUNCTION OF MICROTUBULES / CBY	04-01-82 03-31-83	1	22250	5	R01 GM 28886-02	55,050	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
RIVERSIDE			UNIVERSITY OF CALIFORNIA RIVERSIDE						
JURNAK, FRANCES A BIOCHEMISTRY	BBCB		CRYSTALLOGRAPHIC STUDIES OF PROTEIN ELONGATION FACTORS 08-01-82 07-31-83	0	22550	5	R01 GM 26895-04	36,187	82
MC PHERSON, ALEXANDER BIOCHEMISTRY	BBCB		X-RAY DIFFRACTION ANALYSIS OF DNA BINDING PROTEINS 09-01-82 08-31-83	3	22550	5	R01 GM 27645-04	101,811	82
MC PHERSON, ALEXANDER BIOCHEMISTRY	BBCB		X-RAY CRYSTALLOGRAPHIC ANALYSES OF PROTEIN STRUCTURES 07-01-82 06-30-83	4	22550	2	R01 GM 27838-04	79,675	82
MIDLAND, M MARK CHEMISTRY	MCHA		STEREOSPECIFIC SYNTHESIS STEROID SIDE-CHAIN METABOLITES 08-01-82 07-31-83	2	11940	1	R01 GM 30081-01	66,472	82
MIDLAND, M MARK CHEMISTRY	BMT		ASYMMETRIC REDUCTIONS VIA TRIALKYLBORANES 01-01-82 12-31-82	1	11940	5	R01 GM 24517-05	82,530	82
SAWYER, DONALD T CHEMISTRY	BMT		THE CHEMISTRY OF BIOLOGICAL MANGANESE 12-01-81 11-30-82	0	11920	5	R01 GM 22761-06	62,410	82
SUDMEIER, JAMES L CHEMISTRY	BMT		STUDIES OF ZINC AND CALCIUM METALLOPROTEINS 04-01-82 03-31-83	1	22500	5	R01 GM 25877-04	61,224	82
TRAUGH, JOLINDA A BIOCHEMISTRY	MBY		EFFECTS OF RIBOSOME PHOSPHORYLATION ON TRANSLATION 07-01-82 06-30-83	0	21320	5	R01 GM 21424-08	83,995	82
TRAUGH, JOLINDA A BIOCHEMISTRY	MBY		CYCLIC NUCLEOTIDE-INDEPENDENT PHOSPHORYLATION 07-01-82 06-30-83	2	22400	2	R01 GM 26738-04	77,190	82
WILKINS, CHARLES L CHEMISTRY	SSS		HIGH FIELD FT MASS SPECTROMETRY FOR BIOMOLECULES 06-01-82 05-31-83	2	12840	1	R01 GM 30604-01	356,883	82
** 11 TOTAL								1,063,427	
SAN DIEGO			HELICON FOUNDATION						
THOMAS, CHARLES A, JR NONE	GEN		MOLECULAR CYTOGENETICS 02-01-82 01-31-83	0	21600	5	R01 GM 30338-02	143,424	82
** 1 TOTAL								143,424	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
SAN DIEGO	SAN DIEGO STATE UNIVERSITY									
ABBOTT, MITCHEL T	PYRIMIDINE & PROLYL ALPHA-KETOGLUTARATE DIOXYGENASES									
CHEMISTRY	BIO		05-01-82 04-30-83	0	22400	5	R01 GM	25055-05	46,687	82
LEBHERZ, HERBERT G	REGULATION OF INTRACELLULAR ENZYME CONCENTRATIONS									
CHEMISTRY	BIO		07-01-82 06-30-83	1	21320	5	R01 GM	23045-07	82,782	82
** 2 TOTAL									129,469	
SAN DIEGO	ZOOLOGICAL SOCIETY OF SAN DIEGO									
RYDER, OLIVER A	COMPARATIVE MOLECULAR CYTOGENETICS									
RESEARCH	MGN		08-01-82 07-31-83	2	21480	2	R01 GM	23073-07	99,887	82
** 1 TOTAL									99,887	
SAN FRANCISCO	SAN FRANCISCO STATE UNIVERSITY									
EDEN, DON	STRUCTURE AND ENVIRONMENT OF NUCLEIC ACIDS IN SOLUTION									
CHEMISTRY	BBCA		07-01-82 06-30-83	2	21100	1	R01 GM	31674-01	100,201	82
** 1 TOTAL									100,201	
SAN FRANCISCO	UNIVERSITY OF CALIFORNIA SAN FRANCISCO									
ALBERTS, BRUCE M	DNA-PROTEIN INTERACTIONS IN DNA-REPLICATION CONTROL									
BIOCHEMISTRY AND BIOPHYSICS	PC		09-01-82 08-31-83	1	21200	5	R01 GM	24020-07	183,272	82

CALIFORNIA

SAN FRANCISCO

UNIVERSITY OF CALIFORNIA SAN FRANCISCO

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ALBERTS, BRUCE M / BIOCHEMISTRY AND BIOPHYSICS	BIOCHEMISTRY OF GENE EXPRESSION IN HIGHER EUKARYOTES	MBY		08-01-82 07-31-83	4	22200	2	R01 GM 23928-06	104,101	82
BENET, LESLIE Z / PHARMACY	PHARMACOKINETICS IN DISEASE STATES	SSS		04-01-81 03-31-83	0	11380	5	R01 GM 26551-03	113,252	81
BENET, LESLIE Z / PHARMACY	PHARMACOKINETICS/PHARMACODYNAMICS	PTR		08-01-82 07-31-83	1	11300	*5	P50 GM 26691-04	297,959	82
BENTZ, JOSEPH E / PHARMACY	MEMBRANE FUSION	BBCB		04-01-82 03-31-83	1	22300	7	R01 GM 31506-01	53,048	82
BLAKE, JAMES J / HORMONE RESEARCH LABORATORY	CHEMICAL SYNTHESIS OF PROTEINS	MCHA		08-01-82 07-31-83	2	11840	1	R01 GM 30072-01	70,948	82
BOURNE, HENRY R / CARDIOVASCULAR RESEARCH INST	MOLECULAR BASIS OF RECEPTOR-CYCLASE COUPLING	PC		06-01-82 05-31-83	2	11770	5	R01 GM 27800-03	216,027	82
BOURNE, HENRY R / CARDIOVASCULAR RESEARCH INST	SOMATIC GENETIC ANALYSIS OF ADENYLATE CYCLASE	MGN		07-01-82 06-30-83	0	11770	5	R01 GM 28310-03	75,615	82
BOYER, HERBERT W / BIOCHEMISTRY AND BIOPHYSICS	DISSECTION OF PROCARYOTIC PROMOTER FUNCTIONS	MG		02-01-82 01-31-83	3	21750	5	R01 GM 28749-02	113,809	82
CAHALAN, MICHAEL K / ANESTHESIA	THE RATE OF METABOLISM OF VOLATILE ANESTHETICS IN MAN	SAT		12-01-81 11-30-82	1	13250	5	R23 GM 28502-02	44,475	82
CORREIA, MARIA A / MEDICINE	REGULATION OF INTESTINAL METABOLISM OF XENOBIOTICS	PHRA		12-01-80 11-30-82	0	11880	5	R01 GM 24707-03	72,960	81
CRONNELLY, ROY / ANESTHESIA	PHARMACOKINETICS/DYNAMICS OF MUSCLE RELAXANT ANTAGONISTS	PHRA		04-01-82 03-31-83	1	13250	5	R23 GM 28812-02	44,475	82
EPSTEIN, CHARLES J / PEDIATRICS	MOLECULAR EFFECTS OF CHROMOSMAL ANEUPLOIDY	MGN		08-01-82 07-31-83	4	21480	2	R01 GM 24309-06	125,119	82
FISHER, KNUTE A / CARDIOVASCULAR RESEARCH INST	SPLIT MEMBRANE LIPIDS AND POLYPEPTIDES	MBY		02-01-82 01-31-83	0	22300	5	R01 GM 27049-03	79,477	82
GREENE, PATRICIA J / BIOCHEMISTRY AND BIOPHYSICS	SEQUENCE-SPECIFIC DNA-PROTEIN INTERACTIONS	BIO		12-01-81 11-30-82	2	21100	2	R01 GM 25729-04	65,500	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
SAN FRANCISCO	UNIVERSITY OF CALIFORNIA SAN FRANCISCO							
GUTHRIE, CHRISTINE BIOCHEMISTRY AND BIOPHYSICS	BIOSYNTHESIS OF TRANSFER RNAS GEN	02-01-82 01-31-83	2	21320	5	R01 GM 21119-09	113,689	82
HEDGPETH, JOE BIOCHEMISTRY AND BIOPHYSICS	PROTEIN SECRETION STUDIES WITH PLASMID-CLONED GENES MBC	01-01-82 12-31-82	0	22300	5	R01 GM 27472-03	57,752	82
HOLFORD, NICHOLAS H CLINICAL PHARMACOLOGY	CLINICAL PHARMACODYNAMICS--DIGOXIN AND QUINIDINE SSS	07-01-82 06-30-83	0	11880	5	R01 GM 28072-03	73,888	82
HUNT, C ANTHONY PHARMACY	LIPOSOMES IN VIVO: FOR DRUGS AND PRODRUGS PHRA	03-01-82 02-28-83	3	11750	5	R01 GM 24612-05	67,297	82
HUNT, THOMAS K SURGERY	A STUDY OF WOUND HEALING AND WOUND INFECTION SRC	01-01-82 12-31-82	0	13300	*5	P50 GM 27345-03	386,125	82
JAMES, THOMAS L PHARMACEUTICAL CHEMISTRY	NMR RELAXATION STUDIES OF MOTION IN BIOPOLYMERS BBCB	04-01-82 03-31-83	1	22500	5	R01 GM 25018-05	68,883	82
KIRSCHNER, MARC W BIOCHEMISTRY AND BIOPHYSICS	BIOCHEMICAL STUDIES OF MITOSIS MBY	12-01-81 11-30-82	3	22250	5	R01 GM 26875-04	203,087	82
KOLLMAN, PETER A PHARMACEUTICAL CHEMISTRY	MODELING PROTEIN - SMALL MOLECULE INTERACTIONS BBCA	02-01-82 01-31-83	2	22500	1	R01 GM 29072-01A1	65,283	82
KORNBERG, THOMAS B BIOCHEMISTRY AND BIOPHYSICS	MOLECULAR MECHANISMS IN DEVELOPMENT MBY	03-01-82 02-28-83	2	21750	1	R01 GM 30637-01	112,386	82
KUN, ERNEST CARDIOVASCULAR RESEARCH INST	ENZYMOLOGY OF GLUTATHIONE-CARBOXYLIC ACID THIOESTERS BIO	12-01-80 11-30-82	0	22300	5	R01 GM 20552-06	63,766	81
KUNTZ, IRWIN D, JR PHARMACEUTICAL CHEMISTRY	MACROMOLECULAR HYDRATION AND STRUCTURE BBCB	02-01-82 01-31-83	3	22500	5	R01 GM 19267-11	53,575	82
LEWIS, FRANK R, JR SURGERY	LUNG WATER AND PULMONARY CAPILLARY PERMEABILITY SAT	02-01-82 01-31-83	2	13410	5	R01 GM 27229-03	81,782	82
LI, CHOH H HORMONE RESEARCH LABORATORY	ACTH AND RELATED PEPTIDES BCE	03-01-82 02-28-83	4	11910	2	R01 GM 02907-31	157,006	82
MILLER, CAROL L SURGERY	ANALYSIS OF IMMUNE STATUS OF TRAUMA AND SURGICAL PATIENT SAT	01-01-82 12-31-82	2	13410	2	R01 GM 25896-04	92,702	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
SAN FRANCISCO	UNIVERSITY OF CALIFORNIA SAN FRANCISCO							
MILLER, RONALD D ANESTHESIA	PARALYSIS--ITS ANTAGONISM DURING SURGERY & ANESTHESIA PHRA	04-01-81 11-30-82	0	13200	5	R01 GM 26403-03	43,145	81
O'FARRELL, PATRICK BIOCHEMISTRY AND BIOPHYSICS	CELLULAR DETERMINANTS OF DEVELOPMENTAL STATE CTY	05-01-82 04-30-83	2	21700	1	R01 GM 30756-01	97,644	82
OIE, SVEIN PHARMACY	DRUG DISPOSITION IN RENAL FAILURE PATIENTS PHRA	12-01-80 11-30-82	0	11880	5	R01 GM 25807-03	57,893	81
OIE, SVEIN PHARMACY	DISPOSITION AND ABSORPTION IN DISEASE STATES SSS	08-01-82 07-31-83	0	11880	5	R01 GM 28423-03	88,368	82
OPPENHEIMER, NORMAN J PHARMACEUTICAL CHEMISTRY	STRUCTURE/FUNCTION RELATIONS IN PYRIDINE COENZYMES BIO	05-01-82 04-30-83	4	22400	2	R01 GM 22982-07	109,579	82
ORDAHL, CHARLES P ANATOMY	TRANSCRIPTION OF MUSCLE-SPECIFIC GENES IN MYOGENESIS GEN	09-01-82 06-30-83	3	21700	7	R01 GM 32018-01	96,795	82
ORTIZ DE MONTELLANO, PAUL R PHARMACEUTICAL CHEMISTRY	SELECTIVE DESTRUCTION OF CYTOCHROME P-450 BY DRUGS PHRA	07-01-82 06-30-83	1	11760	5	R01 GM 25515-05	86,477	82
PACKMAN, SEYMOUR PEDIATRICS	COPPER METABOLISM IN THE MOTTLED MOUSE MGN	08-01-82 07-31-83	0	21750	5	R01 GM 28838-03	101,505	82
PAPAHADJOPOULOS, DEMETRIOS CANCER RESEARCH INSTITUTE	MECHANISM OF MEMBRANE FUSION BBCB	08-01-82 07-31-83	1	22300	5	R01 GM 28117-03	63,932	82
PAPAHADJOPOULOS, DEMETRIOS CANCER RESEARCH INSTITUTE	PHOSPHOLIPID-PROTEIN INTERACTIONS AND MEMBRANE FUNCTION BBCB	09-01-82 08-31-83	1	22300	5	R01 GM 26369-05	81,752	82
ROSEN, STEVEN D ANATOMY	CELL SURFACE LECTINS AND INTERCELLULAR ADHESION CBY	02-01-82 01-31-83	0	22200	5	R01 GM 23547-06	101,588	82
RUTTER, WILLIAM J BIOCHEMISTRY AND BIOPHYSICS	SPECIFIC GENE EXPRESSION IN EUCARYOTIC ORGANISMS MBY	12-01-81 11-30-82	3	21750	5	R01 GM 28520-02	166,650	82
SEDAT, JOHN W BIOCHEMISTRY AND BIOPHYSICS	STRUCTURAL DETERMINATION OF INTERPHASE CHROMOSOMES CTY	04-01-82 03-31-83	1	21600	5	R01 GM 25101-05	78,376	82
SHEINER, LEWIS B LABORATORY MEDICINE	NEW WAYS TO INVESTIGATE AND FORECAST PHARMACOKINETICS PHRA	09-01-82 08-31-83	4	11350	2	R01 GM 26676-04	146,661	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
SAN FRANCISCO	UNIVERSITY OF CALIFORNIA SAN FRANCISCO							
SHETLAR, MARTIN D	PHOTOINDUCED DNA-PROTEIN CROSS-LINKING IN CHROMATIN							
PHARMACEUTICAL CHEMISTRY	RAD	04-01-82 03-31-83	1	21600	5	R01 GM 23526-06	66,666	82
STOECKENIUS, WALTHER	LIGHT-ENERGY AND SIGNAL-TRANSDUCTING MEMBRANES							
CARDIOVASCULAR RESEARCH INST	SSS	06-01-82 05-31-83	2	22300	5	P01 GM 27057-03	643,111	82
STROUD, ROBERT M	STRUCTURE AND FUNCTION OF PROTEINS AT MOLECULAR LEVEL							
BIOCHEMISTRY AND BIOPHYSICS	BBCB	04-01-82 03-31-83	1	22550	5	R01 GM 24485-06	111,491	82
SZOKA, FRANCIS C	CONTROLLED DISPOSITION OF LIPOSOMES							
PHARMACY	PHRA	02-01-82 01-31-83	2	11850	1	R01 GM 30163-01	121,778	82
SZOKA, FRANCIS C, JR	MICROINJECTION INTO CELLS BY A LIPOSOME SYSTEM							
PHARMACY	CP	04-01-82 03-31-83	1	22300	5	R01 GM 29514-02	63,049	82
TOZER, THOMAS N	FACTORS INFLUENCING SATURABLE FIRST-PASS METABOLISM							
PHARMACY	PHRA	04-01-82 03-31-83	3	11780	2	R01 GM 26556-04	106,064	82
TRUNKEY, DONALD D	INTRACELLULAR MEDIATORS DURING SEPTIC AND BURN SHOCK							
SURGERY	SGYA	04-01-82 03-31-83	0	13420	5	R01 GM 25078-05	92,033	82
TRUNKEY, DONALD D	TRAUMA CENTER RESEARCH PROGRAM							
SURGERY	SRC	07-01-82 06-30-83	0	13300	*5	P50 GM 18470-11	410,214	82
VALENZUELA, PABLO D	ROLE OF RNA POLYMERASE SUBUNITS IN GENE TRANSCRIPTION							
BIOCHEMISTRY AND BIOPHYSICS	MBY	12-01-81 11-30-82	4	21750	2	R01 GM 25157-04	45,557	82
VAN DYKE, CRAIG	BEHAVIORAL CONDITIONING IN AUTOIMMUNE DISEASES							
LANGLEY PORTER PSYCHIAT INST	BPO	08-01-82 07-31-83	2	13700	1	R01 GM 30544-01	44,754	82
WASKELL, LUCY A	METABOLISM OF INHALATION ANESTHETICS							
ANESTHESIA	SAT	09-01-82 08-31-83	0	13250	5	R23 GM 27791-03	36,417	82
WEBER, HANS J	ACTIVE SODIUM TRANSLOCATION IN HALOBACTERIUM HALOBIUM							
CARDIOVASCULAR RESEARCH INST	PB	07-01-82 06-30-83	0	22300	5	R01 GM 28767-03	86,722	82
WILLIAMS, JOHN A	ROLE OF CELL MEMBRANE IN HORMONE SECRETION AND ACTION							
PHYSIOLOGY	CP	01-01-82 12-31-82	1	22300	5	R01 GM 19998-09	120,734	82
YANG, JEN T	OPTICAL ROTATORY POWER OF BIOPOLYMERS							
CARDIOVASCULAR RESEARCH INST	BBCA	05-01-82 04-30-83	1	22500	5	R01 GM 10880-23	102,687	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
SAN FRANCISCO			UNIVERSITY OF CALIFORNIA SAN FRANCISCO						
ZAKIM, DAVID MEDICINE	PHRA		METABOLISM OF DRUGS, TOXINS, & ENVIRONMENTAL POLLUTANTS 08-01-82 07-31-83	2	11750	1	R01 GM 30840-01	77,017	82
** 58 TOTAL								6,705,917	
SAN FRANCISCO			UNIVERSITY OF THE PACIFIC						
MURPHY, ALEXANDER J BIOCHEMISTRY	PB		SARCOPLASMIC RETICULUM ATPASE--STRUCTURE AND MECHANISM 09-01-82 08-31-83	2	22300	1	R01 GM 31083-01	78,380	82
** 1 TOTAL								78,380	
SANTA BARBARA			SANTA BARBARA BOTANIC GARDEN						
WALTERS, MARTA S NONE	CBY		MEIOSIS: A REVISED SEQUENCE OF EVENTS IN PROPHASE 09-01-81 09-30-82	0	22250	5	R01 GM 19272-08	48,989	81
** 1 TOTAL								48,989	
SANTA BARBARA			UNIVERSITY OF CALIFORNIA SANTA BARBARA						
FARRELL, KEVIN W BIOLOGICAL SCIENCES	CBY		CONTROL OF MICROTUBULE PROPERTIES AND FUNCTIONS 07-01-82 06-30-83	2	22250	2	R01 GM 26732-04	101,504	82
GERIG, JOHN T CHEMISTRY	BBCB		STRUCTURAL STUDIES OF PROTEINS BY FLUORINE NMR 09-01-82 08-31-83	2	22500	2	R01 GM 25975-04	98,425	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
SANTA BARBARA	UNIVERSITY OF CALIFORNIA SANTA BARBARA							
HOOKER, THOMAS M, JR CHEMISTRY	CONFORMATIONS OF BIOLOGICALLY IMPORTANT MOLECULES BBCA	03-01-81 12-31-82	0	22500	5	R01 GM 18092-09	55,020	81
LEE, NANCY L BIOLOGICAL SCIENCES	GENETIC CONTROL OF PROTEIN SYNTHESIS IN E. COLI MG	01-01-82 12-31-82	1	21750	5	R01 GM 14652-16	89,056	82
LIPSHUTZ, BRUCE H CHEMISTRY	NOVEL APPROACHES TO THE CYCLOPEPTIDE ALKALOIDS MCHA	08-01-82 07-31-83	0	11910	5	R01 GM 28128-03	48,400	82
MORSE, DANIEL E NONE	GENETIC REGULATION BY CYCLIC AMP IN TETRAHYMENA CP	07-01-82 06-30-83	1	21750	5	R01 GM 25652-05	101,976	82
ORIAS, EDUARDO BIOLOGICAL SCIENCES	MATING TYPE DETERMINATION IN TETRAHYMENA MG	12-01-81 11-30-82	1	21700	5	R01 GM 28444-02	97,928	82
ORIAS, EDUARDO BIOLOGICAL SCIENCES	CONDITIONAL LETHAL MUTANTS OF TETRAHYMENA GEN	04-01-82 03-31-83	3	21700	2	R01 GM 19290-10A1	90,165	82
PURICH, DANIEL L CHEMISTRY	MOLECULAR MECHANISMS OF MICROTUBULE INTERACTIONS CBY	06-01-82 05-31-83	2	22250	2	R01 GM 24958-04	87,818	82
REED, STEVEN I BIOLOGICAL SCIENCES	THE CONTROL OF CELL DIVISION IN YEAST GEN	07-01-82 06-30-83	0	21700	5	R01 GM 28005-03	84,568	82
** 10 TOTAL							854,860	
SANTA CRUZ	UNIVERSITY OF CALIFORNIA SANTA CRUZ							
BOWMAN, BARRY J BIOLOGY	EUCARYOTIC H+-ATPASES OF PLASMA MEMBRANES AND VACUOLES PB	02-01-82 01-31-83	1	22400	5	R01 GM 28703-02	98,349	82
EDGAR, ROBERT S BIOLOGY	MOLECULAR GENETIC STUDIES OF THE NEMATODE CUTICLE GEN	09-01-82 08-31-83	1	21700	5	R01 GM 28311-02	134,531	82
NOLLER, HARRY F, JR BIOLOGY	RIBOSOME STRUCTURE AND FUNCTION MBY	05-01-82 04-30-83	2	21320	5	R01 GM 17129-12	143,093	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
SANTA CRUZ	UNIVERSITY OF CALIFORNIA SANTA CRUZ									
POODRY, CLIFTON A BIOLOGY	GENETIC CONTROL OF DEVELOPMENT, USING DROSOPHILA									
	GEN		03-01-82 06-30-83	0	21700	5	R01 GM	20401-09	79,588	82
WANG, HOWARD H BIOLOGY	FUNCTIONALLY SIGNIFICANT BINDING OF LOCAL ANESTHETICS									
	BBCB		09-01-82 08-31-83	0	13200	5	R01 GM	28087-03	54,295	82
** 5 TOTAL									509,856	
STANFORD	STANFORD UNIVERSITY									
BALDWIN, ROBERT L BIOCHEMISTRY	PHYSICAL STUDIES OF NUCLEIC ACIDS AND PROTEINS									
	BBCA		01-01-82 12-31-82	0	22500	5	R01 GM	19988-22	157,621	82
BERG, PAUL BIOCHEMISTRY	MECHANISMS AND REGULATION OF GENE EXPRESSION									
	EVR		09-01-82 08-31-83	2	21750	5	R01 GM	13235-18	333,815	82
BLASCHKE, TERRENCE F MEDICINE	KINETICS OF DRUG-DRUG AND DRUG-DISEASE INTERACTIONS									
	PHRA		09-01-82 08-31-83	1	11880	5	R01 GM	22209-08	120,145	82
BLAU, HELEN M PHARMACOLOGY	MUSCLE DIFFERENTIATION IN HETEROKARYONS									
	GEN		07-01-81 06-30-83	0	21480	5	R01 GM	26717-03	76,774	81
BLAU, HELEN M PHARMACOLOGY	MUSCLE DIFFERENTIATION IN HETEROKARYONS									
	CTY		07-01-81 06-30-83	0	21480	3	R01 GM	26717-03S1	29,996	82
BOXER, STEVEN G CHEMISTRY	BIOMOLECULAR STRUCTURE/DYNAMICS--NUCLEAR POLARIZATION									
	BBCA		08-01-82 07-31-83	0	22500	5	R01 GM	27738-03	57,063	82
BRUTLAG, DOUGLAS L BIOCHEMISTRY	TOPOISOMERASES FOLD AND SEGREGATE CHROMOSOMES									
	GEN		07-01-82 06-30-83	2	21600	5	R01 GM	28079-03	126,431	82
BRUTLAG, DOUGLAS L BIOCHEMISTRY	STRUCTURE OF PERICENTRIC HETEROCHROMATIN									
	GEN		04-01-82 03-31-83	3	21600	5	R01 GM	21498-08	115,693	82
CAVALLI-SFORZA, LUIGI L GENETICS	GENETICS RESEARCH PROJECT									
	SSS		05-01-82 04-30-83	0	21400	5	P01 GM	28428-03	450,324	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
STANFORD			STANFORD UNIVERSITY						
CAVALLI-SFORZA, LUIGI L GENETICS	SSS		HUMAN POPULATION GENETICS 08-01-82 07-31-83	3	21400	5	R01 GM 20467-10	264,772	82
COHEN, STANLEY N GENETICS	SSS		GENE EXPRESSION IN HETEROSPECIFIC ENVIRONMENTS 12-01-81 11-30-82	2	21750	5	R01 GM 27241-03	161,604	82
COHEN, STANLEY N GENETICS	MBC		REPLICATION AND TRANSFER OF BACTERIAL PLASMIDS 07-01-82 06-30-83	1	21200	5	R01 GM 26355-04	156,000	82
COLLMAN, JAMES P CHEMISTRY	MCHB		MODELS FOR CYTOCHROME P450 HYDROXYLASES 12-01-81 11-30-82	0	11920	5	R01 GM 17880-12	125,771	82
DAVIS, RONALD W BIOCHEMISTRY	MBY		CELL REGULATION: BIOCHEMICALLY ISOLATED DNA SEGMENTS 03-01-82 02-28-83	0	21750	5	R01 GM 21891-08	146,838	82
DJERASSI, CARL CHEMISTRY	BMT		MAGNETIC CIRCULAR DICHROISM--PORPHYRINS/HEME PROTEINS 07-01-82 06-30-83	0	22500	5	R01 GM 20276-09	90,487	82
DJERASSI, CARL CHEMISTRY	SSS		MASS SPECTROMETRY IN ORGANIC AND BIOCHEMISTRY 03-01-82 02-28-83	1	11910	5	R01 GM 28352-22	188,379	82
DJERASSI, CARL CHEMISTRY	BNP		MARINE CHEMISTRY WITH SPECIAL EMPHASIS ON STEROIDS 05-01-82 04-30-83	4	11910	2	R01 GM 06840-24	300,478	82
DONIACH, SEBASTIAN APPLIED PHYSICS	BBCA		X-RAY STUDIES OF CA AND TB IONS IN BIOLOGICAL SYSTEMS 04-01-82 03-31-83	1	22550	5	R01 GM 25217-05	69,093	82
FELDMAN, DAVID MEDICINE	END		THE ROLE OF RECEPTORS IN GLUCOCORTICOID ACTION 09-01-82 08-31-83	2	11770	5	R01 GM 28825-09	115,277	82
FELDMAN, MARCUS W BIOLOGICAL SCIENCES	GEN		POPULATION GENETICS THEORY 07-01-82 06-30-83	0	21800	5	R01 GM 28016-03	87,172	82
GANESAN, ADAYAPALAM T GENETICS	MG		DNA SYNTHESIS AND GENETIC RECOMBINATION IN B. SUBTILIS 08-01-82 07-31-83	2	21200	5	R01 GM 14108-17	129,367	82
GANESAN, ANN K BIOLOGICAL SCIENCES	MBC		DNA REPAIR IN ESCHERICHIA COLI AND BACILLUS SUBTILIS 08-01-82 07-31-83	0	21200	5	R01 GM 19010-11	110,617	82
HANAWALT, PHILIP C BIOLOGICAL SCIENCES	RAD		REPLICATION AND REPAIR OF GENETIC MATERIAL 07-01-82 06-30-83	3	21250	5	R01 GM 09901-21	157,746	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA								
STANFORD	STANFORD UNIVERSITY							
HERZENBERG, LEONARD A	CLINICAL AND BIOLOGICAL USES OF AUTOMATED CELL SORTING							
GENETICS	SSS	01-01-82 12-31-82	1	12990	5	R01 GM 17367-13	515,173	82
HOFFMAN, BRIAN B	ALPHA2 RECEPTOR MEDIATED INHIBITION OF ADENYLATE CYCLASE							
MEDICINE	PHRA	08-01-82 07-31-83	2	11770	1	R01 GM 31206-01	137,865	82
HOGNESS, DAVID S	THE ARRANGEMENT OF INFORMATION IN ANIMAL CHROMOSOMES							
BIOCHEMISTRY	GEN	02-01-82 01-31-83	0	21600	5	R01 GM 20158-10	191,820	82
JARDETZKY, OLEG	CONFERENCE ON MAGNETIC RESONANCE							
STANFORD MAG RESONANCE LAB	SRC	07-15-82 07-14-83	0	22500	1	R13 GM 01611-01	3,000	82
KAISER, A DALE	CONTROL OF MULTICELLULAR DEVELOPMENT IN MYXOBACTERIA							
BIOCHEMISTRY	MBC	01-01-82 12-31-82	2	22200	5	R01 GM 23441-06	111,208	82
KARLIN, SAMUEL	STOCHASTIC MODELS IN MEDICINE AND BIOLOGY							
MATHEMATICS	SSS	01-01-82 12-31-82	1	21400	5	R01 GM 10452-19	172,948	82
KEDES, LAURENCE H	EMBRYONIC CHROMOSOMAL PROTEINS AND THEIR RNA TEMPLATES							
MEDICINE	CBY	05-01-82 04-30-83	1	21600	5	R01 GM 17995-10	107,615	82
KEDES, LAURENCE H	HISTONE GENE TRANSCRIPTION IN EMBRYONIC DEVELOPMENT							
MEDICINE	CBY	07-01-81 06-30-83	0	21750	5	R01 GM 24118-05	62,373	81
KENDIG, JOAN J	MECHANISM OF LOCAL ANESTHETIC CONDUCTION BLOCK							
ANESTHESIA	SAT	04-01-82 03-31-83	0	13200	5	R01 GM 22113-06	67,013	82
KORNBERG, ARTHUR	MECHANISM AND CONTROL OF DNA REPLICATION							
BIOCHEMISTRY	BIO	09-01-82 08-31-83	0	21200	5	R01 GM 07581-22	374,585	82
KORNBERG, ROGER D	STRUCTURE AND PROCESSING OF NUCLEAR RIBONUCLEOPROTEINS							
STRUCTURAL BIOLOGY	MBY	03-01-82 02-28-83	1	21320	5	R01 GM 28820-02	127,942	82
LEHMAN, I ROBERT	DNA REPLICATION IN PRO- AND EUKARYOTES							
BIOCHEMISTRY	PC	09-01-82 08-31-83	1	21200	5	R01 GM 06196-24	256,607	82
LONG, SHARON R	EARLY GENE EXPRESSION IN THE RHIZOBIUM-LEGUME SYMBIOSIS							
BIOLOGICAL SCIENCES	MG	07-01-82 06-30-83	2	21700	1	R01 GM 30962-01	115,120	82
MAZZE, RICHARD I	NEPHROTOXICITY OF FLUORINATED ANESTHETICS							
ANESTHESIA	SAT	07-01-82 06-30-83	2	13200	2	R01 GM 22746-07	64,444	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
CALIFORNIA										
STANFORD	STANFORD UNIVERSITY									
MEINDL, JAMES D	BME CENTER FOR INTEGRATED ELECTRONICS IN MEDICINE									
ELECTRICAL ENGINEERING	SSS		09-01-82 08-31-83	0	12400	5	P01 GM	17940-13	983,580	82
MILLER, RUPERT G, JR	ADAPTATION OF NEW STATISTICAL IDEAS FOR MEDICINE									
STATISTICS	SSS		07-01-82 06-30-83	0	12100	5	R01 GM	21215-08	121,499	82
OKARMA, THOMAS B	RNA PROCESSING BY THE EXTRACTABLE NUCLEAR ANTIGEN									
MEDICINE	BIO	1	07-01-82 06-30-83	2	21320	1	R01 GM	31225-01	112,689	82
PECORA, ROBERT	DYNAMIC LIGHT SCATTERING FROM BIOLOGICAL SYSTEMS									
CHEMISTRY	BBCB		04-01-82 03-31-83	0	12840	5	R01 GM	22517-07	60,864	82
PITTENDRIGH, COLIN S	CIRCADIAN RHYTHMS: PROPERTIES OF A COMPLEX PACEMAKER									
BIOLOGICAL SCIENCES	BPO		07-01-82 06-30-83	0	13700	5	R01 GM	28803-03	90,084	82
PIZIALI, ROBERT L	THE MECHANICS OF HUMAN BONE AND LONG BONES									
MECHANICAL ENGINEERING	AFY		07-01-82 06-30-83	0	12320	5	R01 GM	28827-03	80,646	82
QUATE, CALVIN F	ACOUSTIC MICROSCOPY FOR BIOMEDICAL APPLICATIONS									
NONE	SSS		12-01-81 11-30-82	0	12930	5	R01 GM	25826-04	158,907	82
RINGOLD, GORDON M	MOLECULAR BIOLOGY OF STEROID HORMONE ACTION									
PHARMACOLOGY	MBY		12-01-81 11-30-82	4	21750	2	R01 GM	25821-04	178,946	82
ROTHMAN, JAMES E	BIOCHEMISTRY OF CLATHRIN-COATED VESICLES									
BIOCHEMISTRY	CBY		08-01-82 07-31-83	1	22300	5	R01 GM	25662-05	131,421	82
SCHIMKE, ROBERT T	ENZYME SYNTHESIS AND DEGRADATION IN METABOLIC CONTROL									
BIOLOGICAL SCIENCES	BIO		12-01-81 11-30-82	4	21600	2	R01 GM	14931-16	163,987	82
SCHULMAN, HOWARD	CALCIUM AND CALMODULIN-DEPENDENT PROTEIN KINASES									
PHARMACOLOGY	PC		02-01-82 01-31-83	2	22400	1	R01 GM	30179-01	103,170	82
SIMONI, ROBERT D	MEMBRANE FUNCTION AND CELLULAR ENERGETICS									
BIOLOGICAL SCIENCES	MBC		08-01-82 07-31-83	1	22300	5	R01 GM	18539-12	126,439	82
SKLAR, JEFFREY L	TRANSCRIPTION OF HUMAN GLOBIN GENES IN DNA VECTORS									
PATHOLOGY	MBY		07-01-82 06-30-83	2	21750	1	R01 GM	31218-01	89,582	82
SPUDICH, JAMES A	CONTROL OF ASSEMBLY AND INTERACTION OF MYOSIN									
STRUCTURAL BIOLOGY	CTY		09-01-82 08-31-83	3	22250	5	R01 GM	25240-06	143,363	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA									
STANFORD	STANFORD UNIVERSITY								
SPUDICH, JAMES A STRUCTURAL BIOLOGY	ACTIN ASSEMBLY BEFORE AND AFTER FERTILIZATION CBY		12-01-81 11-30-82	0	22250	5 R01 GM	27510-03	104,071	82
SPUDICH, JAMES A STRUCTURAL BIOLOGY	MEMBRANE CHANNELS, RECEPTORS AND ANCHORS SSS		07-01-82 06-30-83	3	22300	1 P01 GM	30387-01	426,530	82
STANSKI, DONALD R ANESTHESIA	INTRAVENOUS ANESTHETICS IN SURGICAL PATIENTS SAT		07-01-82 06-30-83	0	13250	5 R23 GM	28032-03	38,571	82
STRYER, LUBERT STRUCTURAL BIOLOGY	OPTICAL STUDIES OF PROTEIN STRUCTURE AND FUNCTION SSS		04-01-82 03-31-83	4	12840	2 R01 GM	24032-06	113,710	82
TAUBE, HENRY CHEMISTRY	BIOCHEMICALLY SIGNIFICANT MOLECULES AS LIGANDS BMT		04-01-82 03-31-83	1	11920	5 R01 GM	13638-17	115,915	82
UNWIN, NIGEL STRUCTURAL BIOLOGY	DIFFRACTION STUDIES OF GAP JUNCTIONS AND RIBOSOMES BBCB		12-01-81 11-30-82	1	22550	5 R01 GM	28668-02	33,212	82
UNWIN, PETER N STRUCTURAL BIOLOGY	STRUCTURE OF MOLECULAR ASSEMBLIES INVOLVING MEMBRANES MBY		04-01-82 03-31-83	2	22300	5 R01 GM	27764-03	134,219	82
VAN TAMELEN, EUGENE E CHEMISTRY	BIOORGANIC CHEMISTRY OF STEROIDS AND TERPENOIDS MCHA		08-01-82 07-31-83	0	11910	5 R01 GM	10421-18	63,434	82
WALBOT, VIRGINIA E BIOLOGICAL SCIENCES	VARIATION IN MITOCHONDRIAL GENOTYPE GEN		01-01-82 12-31-82	0	21280	5 R01 GM	29775-02	87,328	82
WALLACE, DOUGLAS C GENETICS	MITOCHONDRIAL GENETICS AND NEOPLASTIC TRANSFORMATION MGN		09-01-82 08-31-83	0	21280	5 R01 GM	24285-06	122,270	82
WATT, WARD B BIOLOGICAL SCIENCES	NATURAL GENETIC VARIATION: IN VIVO METABOLIC IMPACT GEN		12-01-81 11-30-82	1	21800	5 R01 GM	26758-02	90,502	82
WEISSMAN, IRVING L PATHOLOGY	HISTOCOMPATIBILITY AND ALLORECOGNITION IN TUNICATES MGN		08-01-82 07-31-83	2	21700	2 R01 GM	25902-04	118,696	82
YANOFSKY, CHARLES BIOLOGICAL SCIENCES	GENETIC/BIOCHEMICAL STUDY OF TRYPTOPHAN SYNTHETASE MBC		05-01-82 04-30-83	1	21750	5 R01 GM	09738-20	150,304	82
ZARE, RICHARD N CHEMISTRY	APPLICATIONS OF LASER FLUORIMETRY TO BIOMEDICAL ANALYSIS BMT		07-01-82 06-30-83	1	12840	5 R01 GM	29276-06	92,782	82
** 64 TOTAL								10,115,897	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CALIFORNIA							
TORRANCE	LOS ANGELES COUNTY HARBOR-UCLA MED CTR						
NELSON, RONALD J SURGERY	DEVELOPMENT OF A MICROPOROUS TRACHEAL PROSTHESIS SB 03-01-82 02-28-83	1	12350	5	R01 GM 24300-05	89,665	82
UITTO, JOUNI J INTERNAL MEDICINE-DERMATOLOGY	COLLAGEN BIOSYNTHESIS BY CULTURED HUMAN FIBROBLASTS GMA 08-01-82 07-31-83	0	13420	5	R01 GM 28833-03	88,553	82
** 2 TOTAL						178,218	
*** 4 *CENTERS						377,620	
*** 432 NONCENTER						51,366,158	
*** 436 TOTAL						51,743,778	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
COLORADO								
ASPEN	ASPEN CENTER FOR PHYSICS							
GOAD, WALTER B THEORETICAL BIOL & BIOPHYS GRP	WORKSHOP ON COMPUTATIONAL ANALYSIS OF DNA SEQUENCES SRC	07-15-82 07-14-83	0	21600	1	R13 GM 01628-01	3,000	82
** 1 TOTAL							3,000	
BOULDER	UNIVERSITY OF COLORADO AT BOULDER							
BLOEDOW, DUANE C NONE	POSTBURN SERUM DRUG BINDING IN HUMANS PHRA	08-01-82 07-31-83	2	13420	1	R01 GM 29543-01A1	55,526	82
CARUTHERS, MARVIN H CHEMISTRY	CHEMICAL AND ENZYMATIC STUDIES ON GENE CONTROL REGIONS BNP	12-01-81 11-30-82	4	21750	2	R01 GM 25680-04	97,411	82
CARUTHERS, MARVIN H CHEMISTRY	CHROMOSOME DNA REGULATORY REGIONS PC	12-01-81 11-30-82	0	21750	5	R01 GM 21120-08	125,353	82
CECH, THOMAS R CHEMISTRY	CHROMATIN STRUCTURE OF A TRANSCRIPTION UNIT MBY	04-01-82 03-31-83	1	21600	5	R01 GM 25273-05	88,281	82
CECH, THOMAS R CHEMISTRY	ENZYMATIC SPLICING OF A RIBOSOMAL RNA PRECURSOR MBY	08-01-82 07-31-83	0	21750	5	R01 GM 28039-03	67,952	82
CHUNG, LELAND W NONE	NEONATAL IMPRINTING MECHANISMS AND DEVELOPMENT PHRA	08-01-82 07-31-83	1	11780	5	R01 GM 2502/-05	93,368	82
GILL, STANLEY J CHEMISTRY	THERMODYNAMIC STUDY OF PROTEIN-NUCLEIC ACID INTERACTIONS BBCA	12-01-80 11-30-82	0	21100	5	R01 GM 25889-03	57,476	81
GOLD, LAWRENCE M MOLECULAR, CELLULAR & DEV BIOL	REGULATION OF BACTERIOPHAGE T4 GENE EXPRESSION VR	01-01-82 12-31-82	0	21750	5	R01 GM 19963-10	169,659	82
GOLD, LAWRENCE M MOLECULAR, CELLULAR & DEV BIOL	TRANSLATIONAL REGULATION: THE T4 RIIB CISTRON PC	12-01-81 11-30-82	3	21320	5	R01 GM 28685-02	166,408	82
GOLD, LAWRENCE M MOLECULAR, CELLULAR & DEV BIOL	NUCLEIC ACID SEQUENCE ANALYSIS SSS	12-01-81 11-30-82	0	21320	5	R01 GM 28755-02	56,431	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
COLORADO									
BOULDER			UNIVERSITY OF COLORADO AT BOULDER						
HALLICK, RICHARD B CHEMISTRY	GEN		STRUCTURE AND ORGANIZATION OF CHLOROPLAST TRNA GENES 12-01-81 11-30-82	1	21280	5	R01 GM 28463-02	83,112	82
HALLICK, RICHARD B CHEMISTRY	MBY		GENE EXPRESSION IN CELL ORGANELLES 07-01-82 06-30-83	4	21280	2	R01 GM 21351-09	84,107	82
HIRSH, DAVID I MOLECULAR, CELLULAR & DEV BIOL	GEN		STRUCTURE AND EXPRESSION OF EUCARYOTIC GENES 04-01-82 03-31-83	4	21750	2	R01 GM 26515-04	138,798	82
HIRSH, DAVID I MOLECULAR, CELLULAR & DEV BIOL	GEN		GENETIC CONTROL OF DEVELOPMENT 09-01-82 08-31-83	2	22200	5	R01 GM 19851-11	219,047	82
MC INTOSH, J RICHARD MOLECULAR, CELLULAR & DEV BIOL	CBY		FUNCTIONS OF MITOTIC SPINDLE PROTEINS 04-01-82 03-31-83	2	22250	1	R01 GM 30213-01	91,694	82
MOLANDER, GARY A CHEMISTRY	BMT		STEREOSPECIFIC SYNTHESES VIA ALLYLMETALLATION REACTIONS 08-01-82 07-31-83	2	11940	1	R01 GM 31013-01	66,441	82
PICKETT-HEAPS, J D MOLECULAR, CELLULAR & DEV BIOL	CBY		CELL DIVISION STUDIES USING THE DIATOM SPINDLE 03-01-82 02-28-83	1	22250	5	R01 GM 27124-03	64,096	82
PORTER, KEITH R MOLECULAR, CELLULAR & DEV BIOL	CBY		CYTOPLASMIC GROUND SUBSTANCE: FORM, FUNCTION, RESPONSE 12-01-81 02-28-83	0	22250	5	R01 GM 27324-03	109,675	82
POYTON, ROBERT O MOLECULAR, CELLULAR & DEV BIOL	MBC		PATHWAYS OF PROTEIN TRANSPORT INTO CELL ORGANELLES 07-01-82 06-30-83	2	21320	5	R01 GM 30228-02	93,823	82
POYTON, ROBERT O MOLECULAR, CELLULAR & DEV BIOL	PB		STRUCTURE AND ASSEMBLY OF CYTOCHROME WITH OXIDASE 07-01-82 06-30-83	1	22450	5	R01 GM 29838-02	59,468	82
PRESCOTT, DAVID M MOLECULAR, CELLULAR & DEV BIOL	CTY		THE GENETIC APPARATUS OF HYPOTRICHOUS CILIATES 08-01-82 07-31-83	2	21600	5	R01 GM 19199-11	151,134	82
RAKOWSKI-DU BOIS, MARY C CHEMISTRY	BMT		SYNTHESES AND STUDIES OF IRON-MOLYBDENUM COMPLEXES 03-01-82 02-28-83	1	11920	5	R01 GM 25122-05	55,801	82
SHINER, CHRISTOPHER S CHEMISTRY	MCHA		A NEW CLASS OF CHIRAL BORANES; SYNTHESIS OF RIFAMYCINS 09-30-82 08-31-83	2	21100	1	R01 GM 31215-01	60,511	82
SINGER, BRITTA S MOLECULAR, CELLULAR & DEV BIOL	GEN		DETERMINANTS OF MUTABILITY IN BACTERIOPHAGE T4 02-01-82 01-31-83	1	21250	5	R01 GM 28634-02	80,126	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
COLORADO									
BOULDER			UNIVERSITY OF COLORADO AT BOULDER						
STAEHELIN, L ANDREW			ADHESIVE INTERACTIONS BETWEEN MEMBRANES						
MOLECULAR, CELLULAR & DEV BIOL	CTY		07-01-82 06-30-83	2	22300	5	R01 GM 22912-06	74,584	82
STAEHELIN, L ANDREW			STRUCTURE AND FUNCTION OF ULTRARAPIDLY FROZEN CELLS						
MOLECULAR, CELLULAR & DEV BIOL	CTY		04-01-82 03-31-83	4	12930	2	R01 GM 18639-11	128,951	82
SUEOKA, NOBORU			IN VITRO INITIATION OF BACILLUS SUBTILIS CHROMOSOME						
MOLECULAR, CELLULAR & DEV BIOL	MG		07-01-82 06-30-83	1	21200	5	R01 GM 28133-03	67,358	82
SUEOKA, NOBORU			GENE EXPRESSION IN NERVOUS VS OTHER TISSUES						
MOLECULAR, CELLULAR & DEV BIOL	CTY		07-01-82 06-30-83	0	21750	5	R01 GM 22951-07	125,053	82
WALBA, DAVID M			TOTAL SYNTHESES OF ZOAPATANOL AND EUNICELLINS						
CHEMISTRY	MCHA		08-01-82 07-31-83	2	11910	1	R01 GM 31051-01	58,131	82
YARUS, MICHAEL J			TRNA STRUCTURE/FUNCTION STUDIES VIA GENE CONSTRUCTION						
MOLECULAR, CELLULAR & DEV BIOL	PC		07-01-82 06-30-83	4	21320	1	R01 GM 30881-01	210,890	82
** 30 TOTAL								3,000,665	
COLORADO SPRINGS			UNIVERSITY OF COLORADO AT COLORADO SPGS						
MATTOON, JAMES R			GENETIC MODIFICATION OF MITOCHONDRIA						
BIOLOGY	PB		09-01-82 08-31-83	2	21280	5	R01 GM 27860-04	103,926	82
** 1 TOTAL								103,926	
DENVER			NATIONAL JEWISH HOSPITAL & RESEARCH CTR						
CHIKARAISHI, DONA M			POST-TRANSCRIPTIONAL CONTROL OF GENE EXPRESSION						
MOLECULAR AND CELLULAR BIOLOGY	MBY		12-01-81 11-30-82	0	21320	5	R01 GM 29302-02	83,977	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
COLORADO										
DENVER	NATIONAL JEWISH HOSPITAL & RESEARCH CTR									
CHIKARAISHI, DONA M	REGULATION OF MAMMALIAN RIBOSOMAL 45S RNA SYNTHESIS									
MOLECULAR AND CELLULAR BIOLOGY	MBY		09-15-82	08-31-83	2	21320	1	R01 GM 29986-01	65,390	82
HENSON, PETER M	RELEASE OF INJURIOUS CONSTITUENTS FROM CELLS									
PEDIATRICS	ALY		07-01-82	06-30-83	4	13410	2	R01 GM 24834-06	142,028	82
PACE, NORMAN R	METABOLISM OF RNA IN PROKARYOTES AND EUKARYOTES									
BIOPHYSICS	MBY		07-01-82	06-30-83	0	21320	5	R01 GM 20147-10	192,512	82
PATO, MARTIN L	EXCISION AND REPLICATION OF MU VIRUS DNA									
MOLECULAR AND CELLULAR BIOLOGY	MG		01-01-82	12-31-82	3	21780	5	R01 GM 24270-05	82,935	82
SOGIN, MITCHELL L	THE ROLE OF REPETITIVE DNA SEQUENCES IN GENE EXPRESSION									
MOLECULAR AND CELLULAR BIOLOGY	PC		02-01-82	01-31-83	0	21750	5	R01 GM 23464-06	83,537	82
** 6 TOTAL									650,379	
DENVER	UNIVERSITY OF COLORADO HLTH SCIENCES CTR									
ABRAMS, ADOLPH	STRUCTURE AND FUNCTION OF BACTERIAL MEMBRANE ATPASE									
BIOCHEM, BIOPHYSICS & GENETICS	BIO		05-01-82	04-30-83	0	22300	5	R01 GM 05810-23	76,736	82
CANN, JOHN R	PHYSICOCHEMISTRY AND IMMUNOLOGY OF MACROMOLECULES									
BIOCHEM, BIOPHYSICS & GENETICS	BBCA		06-01-82	05-31-83	3	22500	5	R01 GM 28793-31	119,707	82
CUMMINGS, DONALD J	REPLICATION, FUNCTION AND BIOGENESIS OF MITOCHONDRIA									
MICROBIOLOGY AND IMMUNOLOGY	CTY		06-01-81	12-31-82	0	21280	5	R01 GM 21948-06	90,204	81
GORDON, JULIUS A	LECTINS, MEMBRANE BINDING AND BIOLOGIC REGULATION									
PATHOLOGY	CBY		09-01-82	08-31-83	0	22300	5	R01 GM 27509-03	42,240	82
HAGERMAN, PAUL J	FLEXIBILITY OF DNA									
BIOCHEM, BIOPHYSICS & GENETICS	BBCA		07-01-82	06-30-83	0	21100	5	R01 GM 28293-03	46,471	82
KAO, FA-TEN	CELL HYBRIDS CONTAINING SINGLE HUMAN CHROMOSOMES									
ROOSEVELT INST FOR CANCER RES	MGN		07-01-82	06-30-83	0	21480	5	R01 GM 26631-03	113,614	82

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
COLORADO								
DENVER		UNIVERSITY OF COLORADO HLTH SCIENCES CTR						
KOLHOUSE, JOHN F / MEDICINE	BMT	THE METABOLIC ROLE OF COBALAMIN AND FOLATE IN MAMMALS / 07-01-82 06-30-83	4	11930	2	R01 GM 26486-04	86,745	82
MALLER, JAMES L / PHARMACOLOGY	CP	CONTROL OF CELL DIVISION BY CYCLIC AMP / 07-01-82 06-30-83	2	22200	2	R01 GM 26743-04	73,031	82
PETTIJOHN, DAVID E / BIOCHEM, BIOPHYSICS & GENETICS	CTY	PACKAGING OF DNA IN CHROMOSOMES / 12-01-81 11-30-82	3	21600	5	R01 GM 18243-11	86,777	82
ROBINSON, WILLIAM A / MEDICINE	SAT	RED AND WHITE BLOOD CELL PRODUCTION IN BURNED HUMANS / 04-01-82 03-31-83	2	13410	5	R01 GM 25759-03	95,069	82
SADLER, JOHN R / BIOCHEM, BIOPHYSICS & GENETICS	MG	DETERMINANTS OF SPECIFICITY IN THE LACTOSE REPRESSOR / 05-01-82 04-30-83	2	21750	1	R01 GM 30709-01	88,298	82
** 11 TOTAL							918,892	
DENVER		UNIVERSITY OF DENVER						
CLARK, ROGER W / BIOLOGICAL SCIENCES	BBCA	EXTRA-CHROMOSOMAL BODIES-STRUCTURE AND REPLICATION / 09-30-82 08-31-83	2	21600	2	R01 GM 30379-02	94,836	82
EATON, GARETH R / CHEMISTRY	BMT	BROADENING REAGENTS FOR NITROXYL SPIN PROBES / 09-24-82 08-31-83	2	22500	2	R01 GM 26566-03A1	57,298	82
EATON, GARETH R / CHEMISTRY	BBCB	INTERACTION OF SPIN LABELS WITH TRANSITION METALS / 07-01-82 06-30-83	0	22500	5	R01 GM 21156-09	95,095	82
** 3 TOTAL							247,229	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
COLORADO										
FORT COLLINS	COLORADO STATE UNIVERSITY									
FIXMAN, MARSHALL CHEMISTRY	THEORETICAL CHEMISTRY AND POLYMERS									
	BBCB		07-01-82 06-30-83	3	22600	5	R01 GM	27945-04	124,004	82
HEGEDUS, LOUIS S CHEMISTRY	ORGANIMETALLIC SYNTHESES OF BIOACTIVE COMPOUNDS									
	BMT		04-01-82 03-31-83	2	11940	2	R01 GM	26178-04	76,324	82
PAULE, MARVIN R BIOCHEMISTRY	GENE SELECTION BY MULTIPLE EUKARYOTIC RNA POLYMERASES									
	PBC		04-01-82 03-31-83	2	21750	2	R01 GM	22580-07	103,400	82
TU, ANTHONY T BIOCHEMISTRY	HEMORRHAGIC AND NECROTIC TOXINS IN SNAKE VENOMS									
	TOX		06-01-82 05-31-83	4	11790	2	R01 GM	15591-15	74,221	82
TU, ANTHONY T BIOCHEMISTRY	SEA SNAKE VENOMS AND TOXINS									
	TOX		09-01-82 08-31-83	0	11790	5	R01 GM	19172-11	64,943	82
WOODY, ROBERT W BIOCHEMISTRY	OPTICAL PROPERTIES OF BIOLOGICAL MACROMOLECULES									
	BBCA		12-01-81 11-30-82	0	22500	5	R01 GM	22994-07	82,969	82
WOODY, ROBERT W BIOCHEMISTRY	SPECTROSCOPIC STUDIES OF RNA POLYMERASE MECHANISM									
	BBCA		06-01-82 05-31-83	2	21310	2	R01 GM	23697-07	81,582	82
** 7 TOTAL									607,443	
*** 0 *CENTERS									0	
*** 59 NONCENTER									5,531,534	
*** 59 TOTAL									5,531,534	

CONNECTICUT

FARMINGTON

UNIVERSITY OF CONNECTICUT HEALTH CENTER

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
BERLIN, RICHARD D PHYSIOLOGY	SURFACE FUNCTIONS DURING MITOSIS CP	02-01-82 01-31-83	4	22250	1 R01 GM 30209-01	135,622	82
DAS, ASIS K MICROBIOLOGY	GENE REGULATION BY TRANSCRIPTION ANTITERMINATION MG	04-01-82 03-31-83	1	21750	5 R01 GM 28946-02	81,866	82
DEUTSCHER, MURRAY P BIOCHEMISTRY	ENZYMOLOGY AND CONTROL OF AMINO ACID ACTIVATION PC	09-01-82 08-31-83	1	21320	5 R01 GM 16317-15	182,723	82
FARABAUGH, PHILIP J MICROBIOLOGY	THE MOLECULAR GENETICS OF THE YEAST TRANSPOSON TY1 GEN	09-01-82 08-31-83	1	21780	5 R01 GM 29480-02	106,097	82
FEINSTEIN, MAURICE B PHARMACOLOGY	MECHANISM OF ACTION OF ANESTHETICS PHY	01-01-82 12-31-82	4	13200	2 R01 GM 17536-13	112,803	82
KOPPEL, DENNIS E BIOCHEMISTRY	MEMBRANE DYNAMICS OF LOCOMOTING TISSUE CELLS CTY	01-01-82 12-31-82	2	22300	2 R01 GM 23585-06	85,167	82
KOPPEL, DENNIS E BIOCHEMISTRY	GLYCOPROTEIN MOBILITIES-MATRIX CONTROLS BBCA	07-01-82 06-30-83	0	22300	5 R01 GM 28250-03	56,665	82
OZOLS, JURIS B BIOCHEMISTRY	STRUCTURE AND PROTEOLYSIS OF HEPATIC MEMBRANE PROTEINS BIO	07-01-82 06-30-83	1	22300	5 R01 GM 26351-04	124,269	82
SCHENKMAN, JOHN B PHARMACOLOGY	INDUCTION AND MODE OF ACTION OF HEPATIC DRUG OXIDASE ET	06-01-82 05-31-83	0	11760	5 R01 GM 26114-05	175,300	82
SCHENKMAN, JOHN B PHARMACOLOGY	ACTIVE OXYGEN GENERATION BY HEPATIC MICROSOMES TOX	09-01-82 08-31-83	4	11760	2 R01 GM 26548-04	107,237	82
SETLOW, PETER BIOCHEMISTRY	DEGRADATION REACTIONS IN SPORE GERMINATION MBC	09-01-82 08-31-83	1	22200	5 R01 GM 19698-11	139,476	82
SHERLINE, PETER MEDICINE	REGULATION OF MICROTUBULE ASSEMBLY IN VIVO CBY	09-01-82 08-31-83	2	22250	2 R01 GM 22497-07	96,733	82
STRITTMATTER, PHILIPP BIOCHEMISTRY	STUDY OF STRUCTURE AND FUNCTION OF MICROSOMAL MEMBRANES PC	06-01-82 05-31-83	0	22300	5 R01 GM 15924-15	198,975	82
WHITE, RONALD E PHARMACOLOGY	MODES OF OXYGEN ACTIVATION BY CYTOCHROME P-450 PB	12-01-81 11-30-82	1	11920	5 R01 GM 28737-02	68,197	82
** 14 TOTAL						1,671,130	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CONNECTICUT									
HARTFORD	TRINITY COLLEGE								
BRONZINO, JOSEPH D	BRAIN STEM MECHANISMS INVOLVED IN PAIN MODULATION								
BIOMEDICAL ENGINEERING	NEUA		01-01-82 12-31-83	0	13700	5	R01 GM 27226-03	63,644	82
** 1 TOTAL								63,644	
MIDDLETOWN	WESLEYAN UNIVERSITY								
BOLTON, PHILIP H	CONFORMATION AND MOLECULAR DYNAMICS OF BACTERIOPHAGES								
CHEMISTRY	BBCA		04-01-82 03-31-83	1	21100	5	R01 GM 29184-02	31,595	82
JACOBI, PETER A	A SYNTHETIC APPROACH TO SAXITOXIN								
CHEMISTRY	MCHA		07-01-82 06-30-83	1	11910	5	R01 GM 29540-02	67,317	82
LYNCH, CAROL B	GENETIC ANALYSIS OF BEHAVIORAL THERMOREGULATION								
BIOLOGY	GEN		04-01-81 03-31-83	0	13700	5	R01 GM 21993-07	69,907	81
LYNCH, CAROL B	GENETIC ANALYSIS OF BEHAVIORAL THERMOREGULATION								
BIOLOGY	GEN		09-01-82 03-31-83	0	13700	3	R01 GM 21993-07S1	36,063	82
POTTER, STANLEY S	EUCARYOTIC TRANSPOSABLE GENETIC ELEMENTS								
BIOLOGY	GEN		07-01-82 06-30-83	2	21780	1	R01 GM 30816-01	102,028	82
** 4 TOTAL								306,910	
NEW HAVEN	YALE UNIVERSITY								
ALTMAN, SIDNEY	TRNA: STUDIES OF PRECURSORS, MUTANTS, AND FUNCTION								
BIOLOGY	MG		09-01-82 08-31-83	1	21320	5	R01 GM 19422-11	141,030	82
APFEL, ROBERT E	CELL CHARACTERIZATION AND DEFORMATION WITH ULTRASOUND								
APPLIED MECHANICS	RNM		05-01-82 04-30-83	2	12910	1	R01 GM 30419-01	83,934	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CONNECTICUT								
NEW HAVEN	YALE UNIVERSITY							
ARTAVANIS-TSAKONAS, SPYRIDON BIOLOGY	GENE EXPRESSION IN EUKARYOTIC DEVELOPMENT GEN	04-01-82 03-31-83	1	21700	5	R01 GM 29093-02	89,187	82
BERSON, JEROME A CHEMISTRY	SPIN-REACTIVITY LABELS AS DIMENSIONAL PROBES MCHA	05-01-82 04-30-83	0	11920	5	R01 GM 23375-06	85,919	82
BERSON, JEROME A CHEMISTRY	MECHANISTIC BASES OF SYNTHETIC STRATEGY MCHA	09-15-82 08-31-83	2	11940	1	R01 GM 30787-01	100,324	82
CASTLE, JOHN D CELL BIOLOGY	EXOCYTOSIS: IN VITRO STUDIES CBY	04-01-82 03-31-83	4	22300	2	R01 GM 26524-04	94,437	82
COLEMAN, JOSEPH E MOLECULAR BIOPHYSICS & BIOCHEM	STRUCTURE AND FUNCTION OF DNA BINDING PROTEINS BBCB	06-01-82 05-31-83	0	21600	5	R01 GM 21919-08	89,390	82
COLLINS, J ANESTHESIOLOGY	ANESTHESIA-ANALGESIA OF AWAKE SPINAL NEURONS SAT	04-01-82 03-31-83	1	13200	5	R01 GM 29065-02	67,114	82
CROTHERS, DONALD M CHEMISTRY	THE PHYSICAL BASIS FOR MOLECULAR GENETIC PHENOMENA BBCA	02-01-82 01-31-83	1	21100	5	R01 GM 21966-08	115,044	82
EISENSTADT, JEROME M HUMAN GENETICS	CYTOPLASMIC INHERITANCE IN CULTURED MAMMALIAN CELLS MGN	02-01-82 01-31-83	2	21280	5	R01 GM 21873-08	220,710	82
ENGELMAN, DONALD M MOLECULAR BIOPHYSICS & BIOCHEM	NEUTRON STUDIES OF BACTERIORHODOPSIN STRUCTURE BBCB	01-01-82 12-31-82	1	22550	5	R01 GM 29243-02	92,857	82
FALLER, JOHN W CHEMISTRY	METAL CHELATE PROBES OF DNA-DRUG INTERACTIONS BMT	04-01-82 03-31-83	0	11930	5	R01 GM 28792-05	57,363	82
FORBUSH, BLISS, III PHYSIOLOGY	SUBUNIT INTERACTIONS AND THE MECHANISM OF NA, K-ATPASE BIO	04-01-82 03-31-83	0	22300	5	R01 GM 27920-03	89,938	82
FRANCKE, UTA HUMAN GENETICS	INTRACHROMOSOMAL GENE MAPPING MGN	07-01-82 06-30-83	4	21480	2	R01 GM 26105-05	171,480	82
FRUTON, JOSEPH S MOLECULAR BIOPHYSICS & BIOCHEM	PROTEIN CONFORMATION AND ENZYME CATALYSIS BIO	06-01-82 05-31-83	2	22400	5	R01 GM 18172-12	105,689	82
GALL, JOSEPH G BIOLOGY	THE ORGANIZATION OF ANIMAL CELL NUCLEI MBY	09-01-82 08-31-83	1	21600	5	R01 GM 12427-19	197,276	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CONNECTICUT								
NEW HAVEN	YALE UNIVERSITY							
GAREN, ALAN / MOLECULAR BIOPHYSICS & BIOCHEM	HORMONAL CONTROLS OF DROSOPHILA DEVELOPMENT / GEN	01-01-82 12-31-82	3	21700	5	R01 GM 24764-05	113,905	82
GERLT, JOHN A / CHEMISTRY	ENZYMOLOGY OF PHOSPHORUS METABOLISM / BIO 1	07-01-82 06-30-83	2	22400	2	R01 GM 22350-07	122,198	82
GERLT, JOHN A / CHEMISTRY	31P AND 17O NMR STUDIES OF OLIGONUCLEOTIDE CONFORMATION / BBCA	09-15-82 08-31-83	2	21100	1	R01 GM 30562-01	70,299	82
GRINDLEY, NIGEL D / MOLECULAR BIOPHYSICS & BIOCHEM	MECHANISM OF INSERTION SEQUENCE TRANSLOCATION / MG	07-01-82 06-30-83	3	21780	5	R01 GM 28470-03	132,556	82
GRINDLEY, NIGEL D / MOLECULAR BIOPHYSICS & BIOCHEM	STRUCTURE AND FUNCTION OF E COLI PO1A GENE / MBC	05-01-82 04-30-83	0	21200	5	R01 GM 28550-03	94,791	82
HELLER, JOHN S / PHARMACOLOGY	POST-TRANSLATIONAL CONTROL OF ORNITHINE DECARBOXYLASE / PBC	07-01-81 11-30-82	0	22400	5	R01 GM 26559-03	75,855	81
HORVATH, CSABA G / CHEMICAL ENGINEERING	LIQUID CHROMATOGRAPHY OF BIOLOGICAL SUBSTANCES / MCHB	02-01-82 01-31-83	0	12820	5	R01 GM 20993-08	97,906	82
HOWARD-FLANDERS, PAUL / THERAPEUTIC RADIOLOGY	CROSSLINKING OF NUCLEOPROTEINS BY RADIATION / RAD	12-01-81 11-30-82	3	21250	5	R01 GM 11014-22	105,604	82
HUTCHINSON, FRANKLIN / MOLECULAR BIOPHYSICS & BIOCHEM	MECHANISMS OF MUTAGENESIS / MG	08-01-82 07-31-83	0	21250	5	R01 GM 28297-03	102,558	82
KONIGSBERG, WILLIAM H / MOLECULAR BIOPHYSICS & BIOCHEM	RELATION OF PROTEIN STRUCTURE TO BIOLOGICAL FUNCTION / PC	01-01-82 12-31-82	2	21320	5	R01 GM 12607-18	149,269	82
KOZARICH, JOHN W / PHARMACOLOGY	CHEMISTRY AND BIOCHEMISTRY OF 7-METHYLGUANOSINE / BIO	08-01-82 07-31-83	0	21320	5	R01 GM 26985-03	78,323	82
KOZARICH, JOHN W / PHARMACOLOGY	MECHANISM OF GLYOXALASE I AND LACTATE RACEMASE / PB	04-01-82 03-31-83	1	22400	5	R01 GM 29204-02	70,850	82
KREMKAU, FREDERICK W / DIAGNOSTIC RADIOLOGY	BIOMOLECULAR ABSORPTION OF ULTRASOUND / RNM	01-01-82 12-31-82	1	12910	5	R01 GM 30521-02	78,781	82
LIEBKE, E HOPE / MOLECULAR BIOPHYSICS & BIOCHEM	REGULATION OF RRN OPERON EXPRESSION: MUTANT ANALYSIS / MBC	08-01-82 07-31-83	0	21750	5	R01 GM 27896-03	57,770	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CONNECTICUT								
NEW HAVEN	YALE UNIVERSITY							
LISKAY, ROBERT M THERAPEUTIC RADIOLOGY	MOLECULAR GENETIC STUDY OF X CHROMOSOME INACTIVATION MGN	04-01-82 03-31-83	1	21400	5	R01 GM 29033-02	81,454	82
MELLMAN, IRA S CELL BIOLOGY	ADSORPTIVE ENDOCYTOSIS AND PLASMA MEMBRANE FUNCTION CP	07-01-82 06-30-83	2	22300	5	R01 GM 29765-02	81,403	82
ORNSTON, L NICHOLAS BIOLOGY	ORIGINS OF METABOLIC DIVERSITY BIO	09-01-80 11-30-82	0	22400	5	R01 GM 25487-03	83,101	80
ORNSTON, L NICHOLAS BIOLOGY	ORIGINS OF METABOLIC DIVERSITY BIO	09-01-80 11-30-82	0	22400	3	R01 GM 25487-03S1	19,206	81
PALADE, GEORGE E CELL BIOLOGY	MEMBRANE INTERACTIONS IN EUKARYOTIC CELLS MBY	12-01-81 11-30-82	2	22300	5	R01 GM 27303-03	119,126	82
PALADE, GEORGE E CELL BIOLOGY	RESEARCH CENTER ON CELLULAR MEMBRANES SSS	12-01-81 11-30-82	2	22300	*5	P50 GM 21714-08	597,050	82
PLATT, TERRY MOLECULAR BIOPHYSICS & BIOCHEM	REGULATORY SEQUENCES IN TRP OPERON MRNA OF E COLI MBC	03-01-82 02-28-83	1	21750	5	R01 GM 22830-07	176,917	82
PRESTEGARD, JAMES H CHEMISTRY	NMR INVESTIGATIONS OF VESICULAR MEMBRANES SSS	01-01-82 12-31-82	3	22300	5	R01 GM 19035-11	98,884	82
RADDING, CHARLES M HUMAN GENETICS	BACTERIOPHAGE RECOMBINATION PROTEINS MG	06-01-82 05-31-83	2	21200	1	R01 GM 30488-01	71,536	82
RAE, PETER M BIOLOGY	GENE INTERRUPTIONS GEN	04-01-82 03-31-83	4	21600	2	R01 GM 26378-04	156,116	82
RICHARDS, FREDERIC M MOLECULAR BIOPHYSICS & BIOCHEM	PROGRAM IN MACROMOLECULAR STRUCTURE, MOTION, CONTROL SSS	04-01-82 03-31-83	3	22550	5	P01 GM 22778-07	687,621	82
RICHARDS, FREDERIC M MOLECULAR BIOPHYSICS & BIOCHEM	NIGMS SHARED INSTRUMENTATION GRANT SSS	09-01-82 03-31-83	0	22550	3	P01 GM 22778-07S1	183,400	82
ROEDER, GLENNA S BIOLOGY	MOLECULAR MECHANISMS OF GENETIC RECOMBINATION IN YEAST GEN	04-01-82 03-31-83	1	21780	5	R01 GM 28904-02	95,161	82
ROSENBAUM, JOEL L BIOLOGY	SYNTHESIS AND ASSEMBLY OF FLAGELLAR PROTEINS MBY	08-01-82 07-31-83	3	22250	5	R01 GM 14642-15	191,748	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
CONNECTICUT								
NEW HAVEN	YALE UNIVERSITY							
ROSENBERG, LEON E	STUDY OF HUMAN GENETICS AND INHERITED DISEASE							
HUMAN GENETICS	SSS	04-01-82 03-31-83	0	21912	*5 P50 GM	20124-10	807,840	82
RUDDLE, FRANK H	GENETIC ANALYSIS OF SOMATIC CELL POPULATIONS							
BIOLOGY	MGN	09-01-82 08-31-83	2	21480	5 R01 GM	09966-21	563,886	82
RUDDLE, FRANK H	HUMAN GENE LIBRARY							
BIOLOGY	SSS	07-01-82 06-30-83	1	21480	5 R01 GM	29111-02	193,538	82
SCHAFER, DAVID E	PHYSICAL STUDIES OF ENTEROTOXIN-MEMBRANE INTERACTIONS							
PHYSIOLOGY	SSS	04-01-82 03-31-83	1	22300	5 R01 GM	24704-05	68,300	82
SCHREIBER, STUART L	THE UTILITY OF PEROXIDES IN ORGANIC SYNTHESIS							
CHEMISTRY	MCHA	05-01-82 04-30-83	2	11940	1 R01 GM	30738-01	106,315	82
SHULMAN, ROBERT G	IN VIVO NMR STUDIES OF BRAIN, LIVER AND TUMORS							
MOLECULAR BIOPHYSICS & BIOCHEM	SSS	02-01-82 01-31-83	2	12840	1 P01 GM	30287-01	746,022	82
SLAYMAN, CAROLYN W	GENETIC STUDY OF ION TRANSPORT IN NEUROSPORA							
HUMAN GENETICS	GEN	04-01-82 03-31-83	1	22300	5 R01 GM	15761-14	112,798	82
SLAYMAN, CLIFFORD L, JR	KINETICS AND REGULATION OF H+ TRANSPORT IN NEUROSPORA							
PHYSIOLOGY	PHY	05-01-82 04-30-83	3	22300	5 R01 GM	15858-15	165,461	82
SOLL, DIETER G	TRANSFER RNA							
MOLECULAR BIOPHYSICS & BIOCHEM	BIO	03-01-82 02-28-83	3	21320	5 R01 GM	22854-07	314,838	82
SPICER, ELEANOR K	STRUCTURE AND EXPRESSION OF T4 DNA REPLICATION GENES							
MOLECULAR BIOPHYSICS & BIOCHEM	MG	04-01-82 03-31-83	2	21200	1 R01 GM	30191-01	71,890	82
STEITZ, JOAN A	MOLECULAR MECHANISMS IN GENE EXPRESSION							
MOLECULAR BIOPHYSICS & BIOCHEM	MBC	05-01-82 04-30-83	1	21750	5 R01 GM	26154-12	174,266	82
STURTEVANT, JULIAN M	PHYSICOCHEMICAL STUDIES OF BIOCHEMICAL REACTIONS							
CHEMISTRY	BBCB	12-01-81 11-30-82	0	22500	5 R01 GM	04725-26	93,817	82
WASSERMAN, HARRY H	REACTIONS OF MOLECULAR OXYGEN WITH ORGANIC SUBSTRATES							
CHEMISTRY	MCHA	07-01-82 06-30-83	3	11920	2 R01 GM	13854-16	127,607	82
WASSERMAN, HARRY H	SYNTHESIS OF B-LACTUM ANTIBIOTICS AND MACROCYCLIC LACTA							
CHEMISTRY	MCHA	07-01-82 06-30-83	2	11940	5 R01 GM	07874-20	90,048	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
CONNECTICUT							
NEW HAVEN		YALE UNIVERSITY					
WEINER, ALAN M MOLECULAR BIOPHYSICS & BIOCHEM	MBY	TRANSCRIPTION AND FUNCTION OF HUMAN SMALL NUCLEAR RNAS 07-01-82 06-30-83	2	21310	1 R01 GM 31073-01	94,888	82
ZIEGLER, FREDERICK E CHEMISTRY	BNP	SYNTHETIC STUDIES OF CYTOTOXIC NATURAL PRODUCTS 09-01-82 08-31-83	2	11910	5 R01 GM 29468-09	152,151	82
** 58 TOTAL						9,678,745	
STORRS		UNIVERSITY OF CONNECTICUT STORRS					
CHOVNICK, ARTHUR BIOLOGICAL SCIENCES	GEN	GENETIC STUDIES IN DROSOPHILA MELANOGASTER 04-01-82 03-31-83	1	21700	5 R01 GM 09886-21	218,909	82
DAVID, CARL W CHEMISTRY	BBCA	POLYPEPTIDE SOLUTION CONFORMATION PREDICTION 05-01-81 09-30-82	0	22600	5 R01 GM 26525-03	69,038	81
GOULD, STEVEN J PHARMACOGNOSY & MEDICINAL CHEM	BNP	BIOSYNTHETIC STUDIES USING 15N-13C CNMR SPECTROSCOPY 12-01-81 11-30-82	2	11910	2 R01 GM 25996-04	94,395	82
GOULD, STEVEN J PHARMACOGNOSY & MEDICINAL CHEM	BNP	STUDIES OF ENZYME REACTION MECHANISMS 04-01-82 03-31-83	1	11920	5 R01 GM 28990-02	50,561	82
KEGELES, GERSON BIOLOGICAL SCIENCES	BBCB	RAPID KINETICS OF AGGREGATING SYSTEMS 07-01-81 12-31-82	0	22500	1 R01 GM 29378-01	55,240	81
KRIDER, HALLIE M BIOLOGICAL SCIENCES	GEN	BRDU EFFECTS ON THE RIBOSOMAL DNA OF DROSOPHILA 01-01-82 12-31-82	3	21750	5 R01 GM 23605-05	75,607	82
STRAUSBAUGH, LINDA D BIOLOGICAL SCIENCES	GEN	GENETICS OF HISTONE DNA IN DROSOPHILA 02-01-82 01-31-83	1	21750	5 R01 GM 28680-02	77,612	82
** 7 TOTAL						641,362	
*** 2 *CENTERS						310,874	
*** 82 NONCENTER						12,050,917	
*** 84 TOTAL						12,361,791	

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
DELAWARE									
NEWARK	UNIVERSITY OF DELAWARE								
COLMAN, ROBERTA F	NUCLEOTIDE SITES OF GLUTAMATE DEHYDROGENASE								
CHEMISTRY	BIO		06-01-82 05-31-83	2	22400	5	R01 GM 21200-09	82,563	82
RECHNITZ, GARRY A	BIOANALYSIS WITH SELECTIVE MEMBRANE ELECTRODES								
CHEMISTRY	BMT		07-01-82 06-30-83	4	12820	2	R01 GM 25308-05	84,086	82
RECHNITZ, GARRY A	BIO-SELECTIVE ELECTRODES USING LIVING BACTERIAL CELLS								
CHEMISTRY	BMT		06-01-81 11-30-82	0	12820	5	R01 GM 25312-03	32,155	81
SCHWEIZER, EDWARD E	MULTI RING PYRAZOLOHETEROCYCLES FROM ALLENYL AZINES								
CHEMISTRY	MCHA		06-01-82 05-31-83	1	11930	5	R01 GM 27620-03	54,874	82
THORPE, COLIN	FLAVOPROTEINS IN FATTY ACID METABOLISM								
CHEMISTRY	PB		07-01-82 06-30-83	4	22400	2	R01 GM 26643-04	85,396	82
USHER, DAVID C	REGULATION OF TWO GENES LINKED TO AN IGK CHAIN GENE								
SCHOOL OF LIFE AND HEALTH SCIS	MGN		01-01-82 12-31-82	0	21480	5	R01 GM 27096-03	76,498	82
** 6 TOTAL								415,572	
*** 0 *CENTERS								0	
*** 6 NONCENTER								415,572	
*** 6 TOTAL								415,572	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
DIST OF COL								
WASHINGTON	AMERICAN NATIONAL RED CROSS							
MERYMAN, HAROLD T CRYOBIOLOGY LABORATORY	PRESERVATION OF ORGANS BY FREEZING SAT	03-01-82 02-28-83	2	13900	2	R01 GM 17959-10	158,735	82
** 1 TOTAL							158,735	
WASHINGTON	CATHOLIC UNIVERSITY OF AMERICA							
MULLINS, JAMES M BIOLOGY	STRUCTURAL AND CHEMICAL ANALYSIS OF THE MIDBODY CBY	09-01-81 02-28-83	0	22250	5	R01 GM 26802-03	29,226	81
SCHWAB, JOHN M CHEMISTRY	STEREOCHEMISTRY OF ENZYMATIC RING CLEAVAGE REACTIONS MCHA	12-01-81 11-30-82	0	11920	5	R01 GM 27610-03	72,518	82
SCHWAB, JOHN M CHEMISTRY	STEREOCHEMISTRY AND MECHANISMS OF ENZYME REACTIONS MCHA	05-01-81 11-30-82	0	11920	5	R01 GM 26074-03	50,487	81
** 3 TOTAL							152,231	
WASHINGTON	GEORGE WASHINGTON UNIVERSITY							
HALPERIN, MAX STATISTICS	GROWTH CURVE ESTIMATION WITH PROGRESSIVE CENSORING SSS	02-01-82 01-31-83	1	12100	1	R01 GM 29999-01	46,051	82
HALPERIN, MAX STATISTICS	EARLY STOPPING IN LONG-TERM CLINICAL TRIALS SSS	12-01-80 11-30-82	0	13700	5	R01 GM 26012-02	56,147	81
JACKSON, MICHAEL J PHYSIOLOGY	DRUG TRANSPORT IN THE GI TRACT AND OTHER EPITHELIA PHRA	07-01-82 06-30-83	4	11750	2	R01 GM 22369-07	105,417	82
LOCKARD, RAYMOND E BIOCHEMISTRY	MESSENGER RNA STRUCTURE IN TRANSLATIONAL CONTROL CTY	12-01-81 11-30-82	1	21320	5	R01 GM 27692-02	90,388	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
DIST OF COL									
WASHINGTON	GEORGE WASHINGTON UNIVERSITY								
LOCKARD, RAYMOND E	TOPOGRAPHY OF 18S RIBOSOMAL RNA IN THE 40S SUBUNIT								
BIOCHEMISTRY	MBY		04-01-82 03-31-83	1	21320	5	R01 GM 28985-02	78,599	82
** 5 TOTAL								376,602	
WASHINGTON	GEORGETOWN UNIVERSITY								
BATES, RICHARD D, JR	MOLECULAR DYNAMICS OF HYDROGEN BONDING IN FLUIDS								
CHEMISTRY	BBCA		01-01-82 12-31-82	0	22600	5	R01 GM 23670-06	54,316	82
CHIRIKJIAN, JACK G	SITE SPECIFIC ENDONUCLEASE CATALYSIS OF DNA								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	2	21200	5	R01 GM 27701-03	63,207	82
FLEMING, PATRICK J	ELECTRON TRANSPORT ENZYMES IN CATECHOLAMINE GRANULES								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	0	22400	5	R01 GM 27695-03	54,582	82
HENDERSON, ELLEN J	PROTEIN TOPOGRAPHY OF D. DISCOIDEUM PLASMA MEMBRANES								
BIOLOGY	MBY		08-01-82 07-31-83	0	22300	5	R01 GM 28887-03	54,683	82
HENSLEY, PRESTON	QUATERNARY INTERACTIONS IN A MULTIENZYME COMPLEX								
BIOCHEMISTRY	BBCA		12-01-81 11-30-82	1	22500	5	R01 GM 28731-02	39,650	82
HORNER, WILLIAM H	GUANIDINE METABOLISM IN MAMMALS								
BIOCHEMISTRY	PBC		04-01-82 03-31-83	0	22400	5	R01 GM 26834-03	59,862	82
** 6 TOTAL								326,300	
WASHINGTON	HOWARD UNIVERSITY								
FRANKEL, JACK S	ONTOGENETIC PATTERNS OF ENZYME LOCUS EXPRESSION								
ZOOLOGY	GEN		09-15-82 08-31-83	2	21700	1	R01 GM 30347-01	47,373	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
DIST OF COL									
WASHINGTON	HOWARD UNIVERSITY								
OLDEN, KENNETH CANCER RESEARCH CENTER	SEGREGATION, PROCESSING & STABILIZATION OF GLYCOPROTEIN								
	·PBC		01-01-82 12-31-82	2	22410	1	R01 GM 29804-01	186,925	82
SMITH, THOMAS E BIOCHEMISTRY	KINETICS AND CHEMISTRY OF ALLOSTERIC INTERACTIONS								
	BIO		04-01-82 03-31-83	3	22400	5	R01 GM 28373-03	112,733	82
SOUTHERLAND, WILLIAM M BIOCHEMISTRY	A STRUCTURAL AND ENZYMIC ANALYSIS OF SULFITE OXIDASES								
	BIO		07-01-82 06-30-83	0	22400	5	R01 GM 27975-03	65,898	82
** 4 TOTAL								412,929	
WASHINGTON	NATIONAL BIOMEDICAL RESEARCH FOUNDATION								
DAYHOFF, MARGARET O CHEMICAL BIOLOGY	COMPUTER STUDY OF SEQUENCES OF AMINO ACIDS IN PROTEINS								
	SSS		08-01-82 07-31-83	1	22500	2	R01 GM 08710-22	364,472	82
** 1 TOTAL								364,472	
WASHINGTON	U.S. NAVAL RESEARCH LABORATORY								
HENDRICKSON, WAYNE A NONE	ANOMALOUS-SCATTERING STUDIES OF PROTEIN STRUCTURE								
	BBCB		02-01-82 01-31-83	2	22550	1	R01 GM 29548-01	82,130	82
KARLE, ISABELLA L LAB STRUCTURE	X-RAY DIFFRACTION STUDIES OF OLIGOPEPTIDES								
	BBCA		08-01-82 07-31-83	2	22550	1	R01 GM 30902-01	53,550	82
** 2 TOTAL								135,680	
*** 0 *CENTERS								0	
*** 22 NONCENTER								1,926,949	
*** 22 TOTAL								1,926,949	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
FLORIDA									
GAINESVILLE	UNIVERSITY OF FLORIDA								
ALLEN, CHARLES M, JR	MECHANISM AND REGULATION OF UNDECAPRENOL BIOSYNTHESIS								
BIOCHEM AND MOLECULAR BIOLOGY	MBC		07-01-82 06-30-83	0	22400	5 R01	GM 23193-06	60,770	82
BODOR, NICHOLAS S	REDOX SYSTEMS FOR DELIVERY OF DRUGS TO THE BRAIN								
MEDICINAL CHEMISTRY	PHRA		12-01-81 11-30-82	0	11850	5 R01	GM 27167-03	60,173	82
CHAU, VINCENT	MECHANISM OF ENZYME REGULATION BY CALMODULIN								
BIOCHEM AND MOLECULAR BIOLOGY	BIO	1	07-01-82 06-30-83	2	22400	1 R01	GM 30554-01	72,244	82
GREGG, JAMES H	CELL. SLIME MOLD INTERACTION/REGULATION/DIFFERENTIATION								
MICROBIOLOGY AND CELL SCIENCE	CBY		01-01-82 12-31-82	0	22200	5 R01	GM 10138-20	71,117	82
GURIN, SAMUEL	BIOSYNTHESIS AND FUNCTION OF PYRIDINE CARBOXYLIC ACIDS								
NONE	BIO		04-01-82 03-31-83	0	11910	5 R01	GM 22744-07	30,908	82
HOLLOMAN, WILLIAM K	ENZYMOLOGY OF GENETIC RECOMBINATION								
IMMUNOLOGY & MED MICROBIOLOGY	GEN		01-01-82 12-31-82	0	21200	5 R01	GM 27103-03	76,412	82
MC GUIRE, PETER M	CHARACTERIZATION OF PLACENTAL RNA POLYMERASE II								
BIOCHEM AND MOLECULAR BIOLOGY	BIO		09-01-82 08-31-83	0	21310	5 R01	GM 27970-03	48,410	82
O'BRIEN, THOMAS W	CHARACTERIZATION OF MAMMALIAN MITOCHONDRIAL RIBOSOMES								
BIOCHEM AND MOLECULAR BIOLOGY	MBY		06-01-81 11-30-82	0	21320	5 R01	GM 15438-13	63,163	81
O'BRIEN, THOMAS W	CHLORAMPHENICOL-INDUCED APLASTIC ANEMIA								
BIOCHEM AND MOLECULAR BIOLOGY	EH		08-01-82 07-31-83	2	11790	2 R01	GM 25888-04A1	85,607	82
O'BRIEN, THOMAS W	IMMUNOCHEMISTRY OF MAMMALIAN MITOCHONDRIAL RIBOSOMES								
BIOCHEM AND MOLECULAR BIOLOGY	MBY		09-01-82 08-31-83	2	21320	2 R01	GM 23322-04	80,752	82
SCHMIDT, ROBERT R	GENE-ENZYME CONTROL IN EUCARYOTIC CELL CYCLE								
MICROBIOLOGY AND CELL SCIENCE	MBY		01-01-81 12-31-82	0	21700	7 R01	GM 29733-01	78,229	81
SILVERMAN, DAVID N	CATALYTIC MECHANISM OF CARBONIC ANHYDRASE								
PHARMACOLOGY AND THERAPEUTICS	PB		04-01-82 03-31-83	1	22400	5 R01	GM 25154-05	102,109	82
WINEFORDNER, JAMES D	MOLECULAR SPECTROMETRIC METHODS FOR DRUGS								
CHEMISTRY	SSS		09-01-82 08-31-83	3	12840	5 R01	GM 11373-20	169,215	82
** 13 TOTAL								999,109	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
FLORIDA									
JACKSONVILLE	UNIVERSITY OF NORTH FLORIDA								
HUEBNER, JAY S	PHOTO-ELECTRIC MEMBRANE PROBES: PHYSICAL STUDIES								
NATURAL SCIENCES	BBCB		07-01-82 06-30-83	0	22300	5	R01 GM 23250-06	37,465	82
** 1 TOTAL								37,465	
MIAMI	UNIVERSITY OF MIAMI								
BREW, KEITH	CHEMICAL STUDIES OF ENZYMES AND PROTEINS								
BIOCHEMISTRY	BIO		06-01-82 05-31-83	2	22500	5	R01 GM 21363-09	164,987	82
CARRAWAY, KERMIT L	MEMBRANE-CYTOSKELETON INTERACTIONS								
ANATOMY	CBY		06-01-81 11-30-82	0	22250	7	R01 GM 30295-01	57,260	81
FENNA, ROGER E	STRUCTURAL STUDIES OF LACTOSE SYNTHETASE								
BIOCHEMISTRY	BBCB		12-01-81 11-30-82	0	22550	5	R01 GM 26767-03	41,819	82
HAYNES, DUNCAN H	SARCOPLASMIC RETICULUM: CA2+ TRANSPORT AND RELEASE								
PHARMACOLOGY	PB		09-01-82 08-31-83	3	22300	5	R01 GM 23990-05	113,195	82
NONNER, WOLFGANG F	MOLECULAR MECHANISMS OF GATING IN IONIC CHANNELS								
PHYSIOLOGY AND BIOPHYSICS	PHY		08-01-82 07-31-83	1	22300	5	R01 GM 30377-02	154,126	82
TAYLOR, BARRIE F	ENZYMES OF AROMATIC OXIDATIONS FROM MICROORGANISMS								
BIOCHEMISTRY	MBC		07-01-82 06-30-83	0	22400	5	R01 GM 20172-08	98,015	82
VOELLMY, RICHARD W	MECHANISM OF REGULATION OF HEAT-SHOCK GENE EXPRESSION								
BIOCHEMISTRY	GEN		07-01-82 06-30-83	2	21750	1	R01 GM 31125-01	131,897	82
** 7 TOTAL								761,299	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
FLORIDA									
TALLAHASSEE	FLORIDA STATE UNIVERSITY								
DE TAR, DELOS F	QUANTITATIVE PREDICTION OF PROTEIN INTERACTIONS								
CHEMISTRY	BBCB	02-01-82	01-31-83	0	22400	5	R01 GM 27814-02	47,304	82
MARZLUFF, WILLIAM F, JR	CONTROL OF HISTONE MRNA SYNTHESIS								
CHEMISTRY	CTY	07-01-82	06-30-83	2	21750	2	R01 GM 29832-06A2	114,130	82
MARZLUFF, WILLIAM F, JR	TRANSCRIPTION OF LMW NUCLEAR RNA GENES IN DEVELOPMENT								
CHEMISTRY	MBY	05-01-82	06-30-83	0	21750	5	R01 GM 27789-03	92,497	82
REEVES, ROBERT H	GENETICALLY ALTERED PROLINE TRANSFER RNAS								
BIOLOGICAL SCIENCE	PC	02-01-82	01-31-83	0	21320	5	R01 GM 28354-03	45,318	82
RHODES, WILLIAM C	ELECTRONIC RESPONSE PROPERTIES OF BIOPOLYMERS								
CHEMISTRY	BBCA	04-01-82	03-31-83	2	22600	2	R01 GM 23942-04	46,038	82
ROBERTS, THOMAS M	AMOEBOID MOTILITY: A CELLULAR AND GENETIC APPROACH								
BIOLOGICAL SCIENCE	TMP	01-01-82	12-31-82	2	22250	1	R01 GM 29994-01	50,949	82
VAN WART, HAROLD E	METALLOENZYMES AND CONNECTIVE TISSUE METABOLISM								
CHEMISTRY	BMT	04-01-82	03-31-83	0	22400	5	R01 GM 27939-03	63,594	82
VAN WART, HAROLD E	METALLOENZYME DYNAMICS AND MECHANISM								
CHEMISTRY	BMT	01-01-82	12-31-82	0	22400	5	R01 GM 27276-03	48,552	82
** 8 TOTAL								508,382	
TAMPA	UNIVERSITY OF SOUTH FLORIDA								
COCHRANE, BRUCE J	INDUCTION OF CYTOCHROME P-450'S IN DROSOPHILA								
BIOLOGY	MBY	08-01-82	07-31-83	2	11760	1	R01 GM 30891-01	51,735	82
EICHLER, DUANE C	NUCLEOLAR RIBONUCLEASES IN RIBOSOMAL RNA PROCESSING								
BIOCHEMISTRY	BIO	04-01-82	03-31-83	1	21320	5	R01 GM 29162-02	58,763	82
KELLER, RONALD K	REGULATION OF GLYCOPROTEIN BIOSYNTHESIS								
BIOCHEMISTRY	PBC	12-01-81	11-30-82	4	22410	2	R01 GM 25364-04	71,894	82
** 3 TOTAL								182,392	
*** 0 *CENTERS								0	
*** 32 NONCENTER								2,488,647	
*** 32 TOTAL								2,488,647	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
GEORGIA									
ATHENS	UNIVERSITY OF GEORGIA								
BREWER, JOHN M	MECHANISM OF METAL ACTIVATION OF YEAST ENOLASE								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	0	22400	5	R01 GM 27742-03	59,235	82
DURE, LEON S, III	TRANSCRIPTION AND TRANSLATION IN A DEVELOPMENTAL SYSTEM								
BIOCHEMISTRY	MBY		07-01-82 06-30-83	3	21320	5	R01 GM 28334-03	85,386	82
FINNERTY, WILLIAM R	GENETICS OF ALKANE UTILIZATION IN ACINETOBACTER								
MICROBIOLOGY	MG		03-01-82 02-28-83	1	21480	5	R01 GM 29086-02	58,551	82
GALAU, GLENN A	REGULATION OF SYNTHESIS OF A HORMONE INDUCED PROTEIN SET								
BIOCHEMISTRY	MBY		07-01-82 06-30-83	1	21320	5	R01 GM 29495-02	46,144	82
GILES, NORMAN H	GENETIC REGULATORY MECHANISMS IN NEUROSPORA								
MOLECULAR & POPULATN GENETICS	GEN		07-01-82 06-30-83	3	21750	5	R01 GM 28777-03	208,187	82
HILL, RICHARD K	STEROCHEMICAL STUDIES OF BIOSYNTHETIC REACTIONS								
CHEMISTRY	BIO		01-01-82 12-31-82	0	11920	5	R01 GM 28236-03	61,240	82
IVARIE, ROBERT D	REGULATION OF R PLASMID GENES IN ESCHERICHIA COLI								
MICROBIOLOGY	MG		08-01-81 05-31-83	3	21750	5	R01 GM 27973-02	109,248	81
KEY, JOE L	RNA METABOLISM IN DEVELOPMENT AND HORMONAL REGULATION								
DIV OF BIOLOGICAL SCIENCES	PC		08-01-82 07-31-83	3	21750	5	R01 GM 30317-03	126,138	82
KUSHNER, SIDNEY R	A BIOCHEMICAL ANALYSIS OF GENETIC RECOMBINATION								
BIOCHEMISTRY	MG		01-01-82 12-31-82	1	21200	5	R01 GM 27997-03	83,885	82
KUSHNER, SIDNEY R	FUNCTIONAL EXPRESSION OF EUKARYOTIC DNA IN E COLI								
MOLECULAR & POPULATN GENETICS	MBC		04-01-82 03-31-83	0	21750	15	R01 GM 28760-03	87,083	82
LANSMAN, ROBERT A	A GENETIC ANALYSIS OF MAMMALIAN MITOCHONDRIAL DNA								
MOLECULAR & POPULATN GENETICS	MGN		12-01-81 11-30-82	0	21280	5	R01 GM 28147-03	78,532	82
LEE, JOHN W	STRUCTURE AND INTERACTIONS OF LUMAZINE PROTEIN								
BIOCHEMISTRY	BBCA		12-01-81 11-30-82	2	22500	2	R01 GM 28139-03	69,594	82
SUMMERS, ANNE O	REGULATION AND STRUCTURE OF THE MER OPERON								
MICROBIOLOGY	MBC		12-01-81 11-30-82	0	21280	5	R01 GM 28211-03	71,680	82
WAMPLER, JOHN E	A UNIQUE LOW-LIGHT IMAGE PROCESSING MICROSCOPE SYSTEM								
BIOCHEMISTRY	BBCA		02-01-82 06-30-83	0	12930	5	R01 GM 28209-03	66,738	82
** 14 TOTAL								1,211,641	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
GEORGIA									
ATLANTA	CLARK COLLEGE								
FINNERTY, VICTORIA M	REGULATION OF GENE EXPRESSION IN DROSOPHILA								
BIOLOGY	GEN		04-01-82 03-31-83	1	21320	5	R01 GM 23736-06	118,333	82
** 1 TOTAL								118,333	
ATLANTA	EMORY UNIVERSITY								
EDMONDSON, DALE E	COVALENT FLAVIN COENZYMES IN FLAVOENZYME CATALYSIS								
BIOCHEMISTRY	BIO	1	07-01-82 06-30-83	4	22400	1	R01 GM 29433-01A1	145,307	82
GLASS, DAVID B	SUBSTRATES AND INHIBITORS OF PROTEIN KINASES								
PHARMACOLOGY	PC		07-01-82 06-30-83	0	22400	5	R01 GM 28144-03	74,044	82
GOLDSTEIN, JACOB H	NMR SPECTROSCOPY OF BIOLOGICALLY IMPORTANT SYSTEMS								
CHEMISTRY	BBCB		09-01-82 08-31-83	3	22500	5	R01 GM 10848-26	106,721	82
GUNN, ROBERT B	MECHANISMS AND CELLULAR FUNCTIONS OF ION TRANSPORTS								
PHYSIOLOGY	PHY		09-01-82 08-31-83	0	22300	5	R01 GM 30754-02	115,104	82
JONES, DEAN P	MECHANISMS OF HYPOXIC PATHOLOGY								
BIOCHEMISTRY	PB		07-01-82 06-30-83	0	22400	5	R01 GM 28176-03	82,622	82
LIOTTA, DENNIS C	IMPORTANT COMPOUNDS VIA ORGANOSELENIUM REAGENTS								
CHEMISTRY	MCHA		07-01-81 03-31-83	0	11920	5	R01 GM 26908-03	54,420	81
MARZILLI, LUIGI G	METAL COMPLEXES AS MUTIFUNCTIONAL CATALYSTS								
CHEMISTRY	BMT		04-01-81 03-31-83	0	11920	5	R01 GM 29225-02	63,397	81
MARZILLI, LUIGI G	SYNTHESIS OF NUCLEIC ACID AND NUCLEOTIDE METAL COMPLEXES								
CHEMISTRY	BBCA		03-01-82 02-28-83	3	21100	2	R01 GM 29222-02	99,213	82
RUBIN, BYRON H	STRUCTURE STUDIES OF PROTEINS GLYCOPROTEINS AND ENZYMES								
CHEMISTRY	BBCB		05-01-82 04-30-83	0	22550	5	R01 GM 27907-03	45,420	82
RUBIN, BYRON H	THREE-DIMENSIONAL STRUCTURE OF CHLOROPEROXIDASE								
CHEMISTRY	BBCB		08-01-81 07-31-83	0	22550	5	R01 GM 26905-03	39,298	81

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
GEORGIA										
ATLANTA	EMORY UNIVERSITY									
WANNER, BARRY L	PHOSPHATE CONTROLLED GENE EXPRESSION IN E COLI									
MICROBIOLOGY	MG	01-01-82	12-31-82	2	21750	1	R01 GM	29627-01	103,573	82
WILKINSON, KEITH D	UBIQUITIN-DEPENDENT PROTEOLYSIS--SPECIFICITY/MECHANISM									
BIOCHEMISTRY	PC	02-01-82	01-31-83	4	22400	1	R01 GM	30308-01	92,171	82
** 12 TOTAL									1,021,290	
ATLANTA	GEORGIA INSTITUTE OF TECHNOLOGY									
BURGESS, EDWARD M	THE CHEMISTRY OF NEW FUNCTIONAL GROUPS IN ENZYMES									
SCHOOL OF CHEMISTRY	MCHA	03-01-82	02-28-83	0	11910	5	R01 GM	12672-12	93,155	82
HALL, CAROLE L	FATTY ACYL COA DEHYDROGENASE/ELECTRON TRANS FLAVOPROTEIN									
SCHOOL OF CHEMISTRY	PB	07-01-82	06-30-83	1	22450	5	R01 GM	25494-05	78,570	82
HALL, DWIGHT H	ORGANIZATION AND EXPRESSION OF THE GENOME OF PHAGE T4									
SCHOOL OF BIOLOGY	MBC	03-01-82	02-28-83	0	21750	5	R01 GM	24455-06	83,480	82
HOUSE, HERBERT O	SPECIAL STRUCTURAL FEATURES TO CONTROL REACTIONS									
SCHOOL OF CHEMISTRY	MCHA	06-01-82	05-31-83	2	11940	1	R01 GM	30735-01	94,967	82
MAY, SHELDON W	NON-HEME IRON OXYGENASE CATALYSIS									
SCHOOL OF CHEMISTRY	PB	09-01-82	08-31-83	0	22400	5	R01 GM	23474-06	122,418	82
POWERS, JAMES C	TRITIATION OF PROTEINS AND OTHER BIOMOLECULES									
SCHOOL OF CHEMISTRY	BBCB	04-01-82	03-31-83	0	22500	5	R01 GM	25181-05	96,720	82
YU, NAI-TENG	LASER-EXCITED RAMAN SPECTROSCOPY OF BIOPOLYMERS									
SCHOOL OF CHEMISTRY	BBCB	09-01-82	08-31-83	4	22500	2	R01 GM	18894-12	97,035	82
** 7 TOTAL									666,345	

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
GEORGIA										
ATLANTA	GEORGIA STATE UNIVERSITY									
SMITH, JERRY C	MOLECULAR PROBES OF CHARGE SEPARATION IN MEMBRANES									
CHEMISTRY	PB		05-01-82 04-30-83	2	22450	1	R01 GM	30552-01	66,558	82
WILSON, W DAVID	INTERACTION OF ANTHRACYCLINE DRUGS WITH DNA									
CHEMISTRY	BBCA		01-01-82 12-31-82	2	11930	9	R01 GM	30267-04	44,326	82
** 2 TOTAL									110,884	
AUGUSTA	MEDICAL COLLEGE OF GEORGIA									
REESE, ANDY C	CIG FUNCTION: INTERACTION WITH FREE MACROPHAGES									
CELL AND MOLECULAR BIOLOGY	EI		08-01-82 07-31-83	0	13410	5	R01 GM	30720-02	80,320	82
** 1 TOTAL									80,320	
MACON	MERCER UNIVERSITY MACON									
HORST, MICHAEL N	CHITIN BIOSYNTHESIS IN A NON-FUNGAL SYSTEM									
NONE	PBC		05-01-82 11-30-82	2	22410	7	R01 GM	30952-01	31,263	82
** 1 TOTAL									31,263	
*** 0 *CENTERS									0	
*** 38 NONCENTER									3,240,076	
*** 38 TOTAL									3,240,076	

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
HAWAII									
HONOLULU		UNIVERSITY OF HAWAII AT MANOA							
ALLEN, RICHARD D NONE	CBY	CELLULAR MEMBRANE RECYCLING 03-01-81 02-28-83	0	22300	5	R01 GM	27283-02	25,697	81
GIBBONS, IAN R KEWALO MARINE LABORATORY	CBY	PROPERTIES OF DYNEIN ISOENZYMES 04-01-82 03-31-83	4	22250	9	R01 GM	30401-06	117,362	82
GUILLORY, RICHARD J BIOCHEMISTRY AND BIOPHYSICS	BIO	MEMBRANE LINKED REACTIONS: COUPLING FACTOR ATPASE 04-01-82 03-31-83	1	22450	5	R01 GM	27857-03	65,510	82
GUILLORY, RICHARD J BIOCHEMISTRY AND BIOPHYSICS	PB	COMPLEX I CHARACTERIZATION WITH PHOTOAFFINITY LABELS 04-01-82 03-31-83	1	22400	5	R01 GM	24348-04	49,899	82
KANE, ROBERT E KEWALO MARINE LABORATORY	CBY	CELL PROTEINS IN DIVISION AND EARLY DEVELOPMENT 09-01-82 08-31-83	3	22250	5	R01 GM	14363-17	53,825	82
MORTON, NEWTON E NONE	SSS	A RESEARCH PROGRAM IN GENETIC EPIDEMIOLOGY 03-01-82 02-28-83	2	21400	5	R01 GM	17173-13	239,004	82
RAYNER, MARTIN D PHYSIOLOGY	PHY	NA+-PORES: PHOTOAFFINITY LABELS FOR SUB-UNIT FUNCTION 09-01-82 08-31-83	0	22300	5	R01 GM	29263-03	66,360	82
TIUS, MARCUS A CHEMISTRY	MCHA	TOTAL SYNTHESIS OF (-) - ASPERDIOL 06-01-82 05-31-83	2	11910	1	R01 GM	30390-01	53,857	82
YASUNOBU, KERRY T BIOCHEMISTRY AND BIOPHYSICS	PB	CYTOCHROME OXIDASE AND CYTOCHROME P-450 STRUCTURES 07-01-82 06-30-83	1	22450	5	R01 GM	22556-07	97,676	82
** 9 TOTAL								769,190	
*** 0 *CENTERS								0	
*** 9 NONCENTER								769,190	
*** 9 TOTAL								769,190	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
ILLINOIS											
CARBONDALE	SOUTHERN ILLINOIS UNIVERSITY CARBONDALE										
BE MILLER, JAMES N CHEMISTRY AND BIOCHEMISTRY	POTENTIAL GLYCOSYLTRANSFERASE INHIBITORS PBC		07-01-81	05-31-83	0	22410	5	R01 GM	26193-03	68,261	81
BOLEN, DAVID W CHEMISTRY AND BIOCHEMISTRY	ELEMENTARY STEPS IN ENZYME CATALYSIS PB		09-01-82	08-31-83	1	22400	5	R01 GM	22300-08	58,354	82
BORGIA, PETER T MICROBIOLOGY	REGULATORY ROLE OF CYCLIC NUCLEOTIDES IN MUCOR MBC		08-01-80	07-31-83	0	21700	5	R01 GM	25176-03	30,148	80
PARKER, JACK M MICROBIOLOGY	HIGH LEVEL MISTRANSLATION - PROKARYOTIC/EUKARYOTIC CELLS MG		06-01-82	05-31-83	3	21320	2	R01 GM	25855-04	98,006	82
SCHEINER, STEVE CHEMISTRY AND BIOCHEMISTRY	PROTON TRANSFERS IN PROTEINS BBCA		07-01-82	06-30-83	1	22600	5	R01 GM	29391-02	46,972	82
SUNG, MICHAEL T CHEMISTRY AND BIOCHEMISTRY	CHROMATIN STRUCTURE - MAPPING HISTONE/DNA DOMAINS MBY		04-01-82	03-31-83	2	21600	2	R01 GM	27053-04A1	86,101	82
** 6 TOTAL										387,842	
CHICAGO	ILLINOIS INSTITUTE OF TECHNOLOGY										
COTTON, THERESE M CHEMISTRY	SURFACE ENHANCED RAMAN STUDIES OF BIOMOLECULES BMT		02-01-82	01-31-83	2	12840	1	R01 GM	30240-01	136,028	82
GROSSWEINER, LEONARD I PHYSICS	FAST PHOTOSENSITIZED REACTIONS OF AROMATIC COMPOUNDS BBCA		05-01-82	04-30-83	2	11920	2	R01 GM	20117-19	86,472	82
KOPPLE, KENNETH D CHEMISTRY	INFLUENCE OF SOLVATION ON PEPTIDE CONFORMATION BBCB		05-01-82	04-30-83	1	22500	5	R01 GM	26071-04	156,625	82
LIS, LEONARD J PHYSICS	HIGH SENSITIVITY MICROCALORIMETRY OF LIPID MIXTURES BBCA		09-01-82	08-31-83	2	22300	1	R01 GM	30115-01	56,931	82
TIMKOVICH, RUSSELL CHEMISTRY	ENZYMIC REACTIONS OF DISSIMILATORY NITRITE REDUCTASES BIO		04-01-82	03-31-83	1	22450	5	R01 GM	23869-06	77,392	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
ILLINOIS									
CHICAGO	ILLINOIS INSTITUTE OF TECHNOLOGY								
WEBSTER, DALE A / BIOLOGY	A MODEL FOR COMPLEX ELECTRON TRANSPORT CHAINS / BIO		01-01-82 12-31-82	1	22450	5 R01 GM	27085-03	80,082	82
** 6 TOTAL								593,530	
CHICAGO	LOYOLA UNIVERSITY OF CHICAGO								
LATEN, HOWARD M / BIOLOGY	CYTOKININ FUNCTION AND SYNTHESIS IN YEAST / MBC		09-01-82 08-31-83	2	21700	1 R01 GM	31023-01	72,492	82
** 1 TOTAL								72,492	
CHICAGO	NORTHWESTERN UNIVERSITY								
ATKINSON, ARTHUR J, JR / PHARMACOLOGY	CLINICAL PHARMACOLOGY OF COMMONLY USED DRUGS / PTR		04-01-82 03-31-83	2	11700	2 P01 GM	22371-07	189,210	82
LAFFLER, THOMAS G / MICROBIOLOGY AND IMMUNOLOGY	MOLECULAR EVENTS IN THE MITOTIC CYCLE / GEN		09-01-82 08-31-83	2	22200	1 R01 GM	29460-01A1	113,566	82
LEIBOVICH, S JOSEPH / ORAL BIOLOGY	MACROPHAGES, FIBROBLAST STIMULATION, AND WOUND REPAIR / SAT		01-01-82 12-31-82	1	13420	5 R01 GM	29135-02	55,211	82
NOVAK, RAYMOND F / PHARMACOLOGY	MOLECULAR BASIS OF P450LM SUBSTRATE SPECIFICITY / BIO		04-01-82 03-31-83	0	11760	5 R01 GM	27836-03	69,281	82
PLATE, CHARLES A / MICROBIOLOGY AND IMMUNOLOGY	GENETICS & BIOCHEMISTRY OF ENERGY COUPLING IN E COLI / MBC		01-01-82 12-31-82	0	21280	5 R01 GM	27077-03	60,826	82
REDDY, JANARDIAN K / PATHOLOGY	BIOLOGIC STUDIES WITH LIVER PEROXISOME PROLIFERATORS / PTHB		07-01-82 06-30-83	4	22200	2 R01 GM	23750-07	146,427	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
CHICAGO			NORTHWESTERN UNIVERSITY						
ROWND, ROBERT H MOLECULAR BIOLOGY	MBY		THE CONTROL OF THE REPLICATION OF BACTERIAL EPISOMES 09-01-82 08-31-83	4	21780	2	R01 GM 30731-02	225,480	82
VATSIS, KOSTAS P PHARMACOLOGY	PB		CYTOCHROME P-450-B5 INTERACTIONS IN DRUG METABOLISM 07-01-82 06-30-83	0	11760	5	R01 GM 28342-03	65,204	82
YEH, JAY Z PHARMACOLOGY	PHY		MOLECULAR MECHANISM OF LOCAL ANESTHETIC ACTION 07-01-82 06-30-83	2	13200	2	R01 GM 24866-04A1	63,791	82
** 9 TOTAL								988,996	
CHICAGO			RUSH UNIVERSITY						
COHEN, FREDRIC S PHYSIOLOGY	BBCB		FUSION OF PHOSPHOLIPID VESICLES WITH PLANAR MEMBRANES 04-01-82 03-31-83	0	22300	5	R01 GM 27367-03	62,186	82
** 1 TOTAL								62,186	
CHICAGO			RUSH-PRESBYTERIAN-ST LUKES MEDICAL CTR						
COHEN, FREDRIC S PHYSIOLOGY	PHY		ION TRANSPORT AND PHYSIOLOGY OF A-ADRENERGIC STIMULATION 07-01-82 06-30-83	2	22300	1	R01 GM 31039-01	93,520	82
** 1 TOTAL								93,520	

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS							
CHICAGO		UNIVERSITY OF CHICAGO					
AGARWAL, KAN L BIOCHEMISTRY	PC	DNA-PROTEIN INTERACTION 04-01-82 03-31-83	3	21200	2 R01 GM 22199-07	113,774	82
ALBERTE, RANDALL S BIOLOGY	CTY	CONTROL OF ORGANELLE MEMBRANE BIOGENESIS 04-01-81 03-31-83	0	22300	5 R01 GM 23944-03	60,398	81
CASADABAN, MALCOLM J BIOPHYSICS & THEORETICAL BIOL	MG	GENE FUSION AND THE STUDY OF DNA TRANSPOSITION 04-01-82 03-31-83	0	21780	5 R01 GM 29067-02	77,292	82
DRICKAMER, KURT BIOCHEMISTRY	CP	STRUCTURE OF RECEPTORS FOR ENDOCYTOSIS OF GLYCOPROTEINS 02-01-82 01-31-83	2	22300	1 R01 GM 30823-01	124,275	82
EATON, PHILIP E CHEMISTRY	MCHA	SYNTHESIS OF DODECAHEDRANE AND HETERODODECAHEDRANES 04-01-82 03-31-83	1	11930	5 R01 GM 29258-10	157,533	82
EPSTEIN, WOLFGANG BIOCHEMISTRY	MG	FUNCTION OF THE RECA PROTEIN OF E. COLI 09-01-82 08-31-83	0	21200	5 R01 GM 23016-07	58,015	82
EPSTEIN, WOLFGANG BIOCHEMISTRY	MBC	BIOCHEMICAL STUDIES OF ATP-DRIVEN BACTERIAL TRANSPORT 09-01-82 08-31-83	2	22300	5 R01 GM 22323-08	111,189	82
ESPOSITO, ROCHELLE E BIOLOGY	GEN	MEIOTIC RECOMBINATION AND SEGREGATION IN YEAST 04-01-82 03-31-83	3	21700	5 R01 GM 29182-02	155,587	82
FARBER, ROSANN A MICROBIOLOGY	MGN	GENETIC STUDIES ON MUTATION IN NEAR-DIPLOID CELLS 09-01-82 08-31-83	2	21200	2 R01 GM 24778-04A1	98,744	82
FLEMING, GRAHAM R CHEMISTRY	BBCA	TIME RESOLVED STUDIES OF PROTEIN DYNAMICS 04-01-82 03-31-83	0	22500	5 R01 GM 27825-03	72,934	82
GETZ, GODFREY S PATHOLOGY	MBY	LIPIDS AND CONTROL OF MITOCHONDRIAL BIOGENESIS 01-01-82 12-31-82	1	22300	5 R01 GM 18858-10	130,737	82
GOLDBERG, LEON I PHARMACOLOGICAL & PHYSIOL SCIS	PTR	CLINICAL PHARMACOLOGY CENTER 12-01-81 11-30-82	2	11700	2 P01 GM 22220-06	351,662	82
GROSS, MARTIN PATHOLOGY	PBC	TRANSLATIONAL CONTROL OF PROTEIN SYNTHESIS BY HEMIN 09-01-82 08-31-83	3	21320	5 R01 GM 24949-05	91,009	82
HASELKORN, ROBERT BIOPHYSICS & THEORETICAL BIOL	MBY	DIFFERENTIATION IN NITROGEN-FIXING BLUE-GREEN ALGAE 05-01-82 04-30-83	0	22200	5 R01 GM 21823-08	113,375	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
ILLINOIS									
CHICAGO	UNIVERSITY OF CHICAGO								
HUTCHISON, CLYDE A, JR CHEMISTRY	LOCAL STRUCTURE IN ENZYMES--A NEW APPROACH BBCB	12-01-81 11-30-82	1	22500	5	R01 GM	21668-08	123,556	82
KAISER, EMIL T CHEMISTRY	PHOSPHATE TRANSFER ENZYMES BIO	01-01-82 12-31-82	3	22400	2	R01 GM	19037-09	113,070	82
LANDE, RUSSELL S BIOPHYSICS & THEORETICAL BIOL	CORRELATED CHARACTERS IN COMPLEX GENETIC SYSTEMS GEN	09-01-82 08-31-83	0	21800	5	R01 GM	27120-03	35,186	82
LINDQUIST, SUSAN L BIOLOGY	REGULATION OF GENE EXPRESSION IN DROSOPHILA GEN	12-01-81 11-30-82	4	21320	2	R01 GM	25874-04	126,533	82
LOCKER, JOSEPH PATHOLOGY	ANALYSIS OF MTRNA AND ITS PROCESSING IN YEAST MBY	05-01-82 04-30-83	0	21280	5	R01 GM	27795-03	82,805	82
MAKINEN, MARVIN W BIOPHYSICS & THEORETICAL BIOL	ENZYME COMPLEXES IN CRYSTALS-A NEW APPROACH BBCB	04-01-82 03-31-83	2	22500	2	R01 GM	21900-07	143,297	82
MARTIN, TERENCE E BIOLOGY	MESSENGER RNA: PROTEIN COMPLEXES AND PROTEIN SYNTHESIS MBY	07-01-82 06-30-83	0	21320	5	R01 GM	27139-03	79,018	82
NAKAMOTO, TOKUMASA BIOCHEMISTRY	SELECTION OF MRNA INITIATOR SITE IN BACTERIAL PROTEIN MBC	12-01-81 11-30-82	0	21320	5	R01 GM	27263-03	107,207	82
PETES, THOMAS D MICROBIOLOGY	YEAST CHROMOSOME STRUCTURE AND REPLICATION GEN	08-01-82 07-31-83	2	21600	5	R01 GM	24110-06	142,035	82
RICE, STUART A CHEMISTRY	WATER: EXPERIMENTAL AND THEORETICAL STUDIES BBCB	03-01-82 02-28-83	0	22600	5	R01 GM	22728-07	89,869	82
SHAPIRO, JAMES A MICROBIOLOGY	DNA INSERTION MECHANISMS: TRANSPOSONS AND CARCINOGENS MG	01-01-82 12-31-82	3	21780	5	R01 GM	24960-05	180,237	82
SIGLER, PAUL B BIOPHYSICS & THEORETICAL BIOL	SPECIFIC MOLECULAR INTERACTIONS AT THE CELL SURFACE BBCB	09-01-82 08-31-83	0	22550	5	R01 GM	25234-06	76,709	82
SIGLER, PAUL B BIOPHYSICS & THEORETICAL BIOL	STRUCTURAL ANALYSIS OF BIOLOGICAL MACROMOLECULES BBCA	09-01-82 08-31-83	0	21320	5	R01 GM	15225-14	136,052	82
STRAUSS, BERNARD S MICROBIOLOGY	STUDY MODE OF ACTION OF CHEMICAL MUTAGENS GEN	12-01-81 11-30-82	1	21250	5	R01 GM	07816-23	126,997	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
ILLINOIS									
CHICAGO	UNIVERSITY OF CHICAGO								
THROCKMORTON, LYNN H BIOLOGY	PROTEIN DIFFERENTIATION IN DROSOPHILA GEN	06-01-80 03-31-83	0	21800	5	R01 GM	23007-05	132,812	80
THROCKMORTON, LYNN H BIOLOGY	PROTEIN DIFFERENTIATION IN DROSOPHILA GEN	06-01-80 03-31-83	0	21800	3	R01 GM	23007-05S1	12,216	81
TOBACK, FREDERICK G MEDICINE	MEMBRANES AND PHOSPHOLIPIDS IN RENAL HYPERPLASIA PTHA	09-01-81 03-31-83	0	22300	5	R01 GM	22328-07	153,294	81
TOBACK, FREDERICK G MEDICINE	MEMBRANES AND PHOSPHOLIPIDS IN RENAL HYPERPLASIA PTHA	09-01-82 03-31-83	0	22300	3	R01 GM	22328-07S1	93,009	82
VILLEREAL, MITCHEL L PHARMACOLOGICAL & PHYSIOL SCIS	MECHANISMS OF MEMBRANE FUNCTION IN CELL GROWTH MBY	04-01-82 03-31-83	0	22300	5	R01 GM	28359-03	91,099	82
WADE, MICHAEL J BIOLOGY	GENETICAL CONSEQUENCES OF EXTINCTION DISPERSION GEN	09-01-82 08-31-83	2	21600	2	R01 GM	22523-07	63,478	82
WOOL, IRA G BIOCHEMISTRY	PROTEINS OF EUKARYOTIC RIBOSOMES PC	02-01-82 01-31-83	2	21320	5	R01 GM	21769-08	192,711	82
** 33 TOTAL								4,017,714	
CHICAGO	UNIVERSITY OF ILLINOIS CHICAGO CIRCLE								
BARCLAY, STEPHEN L BIOLOGICAL SCIENCES	GENETIC ANALYSIS OF CYTOSKELETAL FUNCTIONS GEN	04-01-82 03-31-83	2	22250	1	R01 GM	30211-01	80,050	82
BHORJEE, JASWANT S BIOLOGICAL SCIENCES	HIGH AFFINITY PROTEINS IN CHROMOSOME ORGANIZATION CTY	08-01-82 07-31-83	0	21600	5	R01 GM	27236-03	53,872	82
GORENSTEIN, DAVID G CHEMISTRY	NMR PROBES OF ENZYMES AND NUCLEIC ACIDS BBCB	01-01-82 12-31-82	2	22400	5	R01 GM	17575-11	75,288	82
HULETT, F MARION BIOLOGICAL SCIENCES	MEMBRANE PROTEIN-PROTEIN SECRETION STUDIES BIO	05-01-81 03-31-83	0	22300	5	R01 GM	21909-06	71,824	81

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS								
CHICAGO	UNIVERSITY OF ILLINOIS CHICAGO CIRCLE							
KAGAN, JACQUES CHEMISTRY	PHOTOTOXICITY OF A-TERTHIENYL AND RELATED COMPOUNDS TOX	09-01-82 08-31-83	0	11920	5	R01 GM 24144-05	82,516	82
KEIDERLING, TIMOTHY A CHEMISTRY	VIBRATIONAL OPTICAL ACTIVITY: BIOCHEMICAL APPLICATIONS BBCA	02-01-82 01-31-83	2	22500	1	R01 GM 30147-01	61,544	82
LE BRETON, PIERRE R CHEMISTRY	UV PHOTOELECTRON STUDIES OF ELECTRONIC STRUCTURE BBCA	09-01-82 08-31-83	0	21100	5	R01 GM 28878-03	61,179	82
LIEBMAN, SUSAN W BIOLOGICAL SCIENCES	NONSENSE SUPPRESSION AND ANTISUPPRESSION IN YEAST GEN	08-01-82 07-31-83	2	21320	5	R01 GM 24189-06	56,421	82
WEAVER, STEVEN G BIOLOGICAL SCIENCES	THE MAINTENANCE OF SEQUENCE HOMOLOGY BY GENE CONVERSION MGN	02-01-82 01-31-83	2	21800	1	R01 GM 30140-01	94,753	82
WYRWICZ, ALICE M CHEMISTRY	MAGNETIC RESONANCE INVESTIGATION OF ANESTHESIA BBCB	09-01-82 08-31-83	1	13200	5	R01 GM 29520-02	56,593	82
** 10 TOTAL							694,040	
CHICAGO	UNIVERSITY OF ILLINOIS MEDICAL CENTER							
BECKER, ROBERT P ANATOMY	BIOMEDICAL APPLICATIONS OF BACKSCATTERED IMAGING CBY	04-01-82 03-31-83	0	12930	5	R01 GM 27763-03	43,032	82
CHUNG, STEPHEN S BIOLOGICAL CHEMISTRY	CELL-CELL CONTACT REGULATED GENES IN DICTYOSTELIUM CTY	07-01-82 06-30-83	2	21700	1	R01 GM 31226-01	93,277	82
FIAT, DANIEL PHYSIOLOGY AND BIOPHYSICS	OXYGEN-17 NMR STUDIES OF PEPTIDE CONFORMATION BBCB	09-01-80 11-30-82	0	22500	5	R01 GM 24813-03	79,196	80
FIAT, DANIEL PHYSIOLOGY AND BIOPHYSICS	OXYGEN-17 NMR STUDIES OF PEPTIDE CONFORMATION BBCB	09-01-80 11-30-82	0	22500	3	R01 GM 24813-03S1	19,071	81
GIACOMONI, DARIO MICROBIOLOGY AND IMMUNOLOGY	CELLULAR DISCRIMINATION OF LIPOSOME-INSERTED MRNAS MBY	12-01-81 11-30-83	0	21320	5	R01 GM 27935-03	85,725	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS								
CHICAGO	UNIVERSITY OF ILLINOIS MEDICAL CENTER							
GRAFF, GUSTAV BIOLOGICAL CHEMISTRY	PLATELET FUNCTION CONTROL BY REGULATING PHOSPHOLIPASE C BIO	08-01-82 07-31-83	0	22400	5	R01 GM 28894-03	74,867	82
HANLON, M SUE BIOLOGICAL CHEMISTRY	RAMAN SPECTRAL STUDIES OF DNA-AMINE COVALENT COMPLEXES BBCA	08-01-82 07-31-83	1	21100	1	R01 GM 30284-01	55,608	82
HJELM, REX P, JR MEDICINAL CHEMISTRY	ELECTRON MICROSCOPY OF CHROMATIN STRUCTURE MBY	04-01-82 03-31-83	0	21600	5	R01 GM 28975-02	38,779	82
LANDS, WILLIAM E BIOLOGICAL CHEMISTRY	PROSTAGLANDIN SYNTHASE--STRUCTURE AND FUNCTION PB	05-01-82 04-30-83	2	22400	1	R01 GM 30509-01	83,906	82
PROUDFIT, HERBERT K PHARMACOLOGY	CNS SITES OF ACTION OF ANALGESIC DRUGS SAT	01-01-82 12-31-82	0	13700	5	R01 GM 25998-03	41,619	82
STORTI, ROBERT V BIOLOGICAL CHEMISTRY	EXPRESSION AND ISOLATION OF DROSOPHILA MUSCLE GENES GEN	08-01-82 07-31-83	2	21600	2	R01 GM 27611-04	113,286	82
STORTI, ROBERT V BIOLOGICAL CHEMISTRY	REGULATION OF EXPRESSION OF CLONED MUSCLE GENES GEN	02-01-82 01-31-83	2	21750	1	R01 GM 30181-01	48,207	82
WOLOSEWICK, JOHN J ANATOMY	THE CYTOPLASMIC GROUND SUBSTANCE IN TRANSFORMED CELLS CBY	04-01-82 03-31-83	0	22250	5	R01 GM 28397-03	60,106	82
** 12 TOTAL							836,679	
DE KALB	NORTHERN ILLINOIS UNIVERSITY							
ERMAN, JAMES E CHEMISTRY	THE MECHANISM OF CYTOCHROME C PEROXIDASE CATALYSIS BIO	08-01-82 07-31-83	0	22450	5	R01 GM 18648-11	64,575	82
HAMPEL, ARNOLD E BIOLOGICAL SCIENCES	AMINOACYL-TRNA SYNTHETASES IN CHO CELLS PC	04-01-81 11-30-82	0	21320	5	R01 GM 19506-09	69,972	81
** 2 TOTAL							134,547	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
EDWARDSVILLE	SOUTHERN ILLINOIS UNIV AT EDWARDSVILLE								
VIOLA, RONALD E CHEMISTRY	METAL ION AND SUBSTRATE SPECIFICITY OF L-ASPARTASE PB		04-01-82 03-31-83	2	22400	1	R01 GM 30217-01	63,276	82
** 1 TOTAL								63,276	
EVANSTON	NORTHWESTERN UNIVERSITY								
BENDER, MYRON L CHEMISTRY	MECHANISM OF ACTION OF PROTEASES BIO		07-01-82 06-30-83	1	22400	5	R01 GM 20853-20	48,509	82
DUMAS, LAWRENCE B BIOCHEM/MOLECULAR & CELL BIOL	EUKARYOTIC CELL PROTEINS THAT INITIATE DNA SYSTHESIS MBY		01-01-82 12-31-82	2	21200	5	R01 GM 23443-06	125,408	82
LETSINGER, ROBERT L CHEMISTRY	SYNTHETIC POLYNUCLEOTIDES AS SITE SPECIFIC REAGENTS BNP		07-01-82 06-30-83	3	11930	2	R01 GM 10265-20	110,693	82
LETSINGER, ROBERT L CHEMISTRY	NIGMS SHARED INSTRUMENTATION GRANT SSS		08-01-82 06-30-83	2	11930	3	R01 GM 10265-20S1	65,937	82
LOACH, PAUL A BIOCHEM/MOLECULAR & CELL BIOL	STRUCTURE AND FUNCTION OF PHOTOSYNTHETIC MEMBRANES PB		07-01-82 06-30-83	1	22450	5	R01 GM 11741-16	105,849	82
LOACH, PAUL A BIOCHEM/MOLECULAR & CELL BIOL	MODEL SYSTEMS FOR ENERGY COUPLING IN MEMBRANES PB		07-01-82 06-30-83	4	22450	2	R01 GM 26098-04	79,583	82
MACDONALD, ROBERT C BIOCHEM/MOLECULAR & CELL BIOL	MEMBRANE FUSION BBCB		03-01-82 02-28-83	0	22300	5	R01 GM 28404-06	41,252	82
MARGOLIASH, EMANUEL BIOCHEM/MOLECULAR & CELL BIOL	CYTOCHROME C MECHANISMS BY RECOMBINANT DNA TECHNIQUES BIO		04-01-82 03-31-83	1	21280	5	R01 GM 29001-02	121,569	82
MARGOLIASH, EMANUEL BIOCHEM/MOLECULAR & CELL BIOL	MITOCHONDRIAL MEMBRANE METABOLIC ROLE OF CYTOCHROME C PB		01-01-82 12-31-82	4	22450	2	R01 GM 19121-11	272,310	82
NOLL, HANS BIOCHEM/MOLECULAR & CELL BIOL	CELL SURFACE PROTEINS IN EMBRYOGENESIS CP		08-01-82 07-31-83	2	22200	2	R01 GM 26968-04	133,703	82

READEX FICHE

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
EVANSTON	NORTHWESTERN UNIVERSITY								
REGIER, JEROME C	CELLULAR DIFFERENTIATION AND EVOLUTION OF GENE FAMILIES								
BIOCHEM/MOLECULAR & CELL BIOL	GEN		02-01-82 01-31-83	2	21700	1	R01 GM 29392-01	101,445	82
ROSENFELD, JOEL P	MORPHINE AND NOCICEPTIVE BRAIN STIMULATION								
PSYCHOLOGY	DABR		03-01-82 02-28-83	2	13700	5	R01 GM 23696-06	46,449	82
VAN DUYNE, RICHARD P	A NEW PROBE TECHNIQUE FOR THE STUDY OF PHOTOSYNTHESIS								
CHEMISTRY	BMT		12-01-81 11-30-82	0	22450	5	R01 GM 27498-03	61,952	82
** 12 TOTAL								1,314,659	
GALESBURG	KNOX COLLEGE								
GEER, BILLY W	GENETIC AND DIETARY CONTROL OF THE PENTOSE SHUNT								
BIOLOGY	GEN		04-01-82 03-31-83	1	21800	5	R01 GM 28779-02	68,981	82
** 1 TOTAL								68,981	
MAYWOOD	LOYOLA UNIVERSITY MEDICAL CENTER								
MALONE, ROBERT E	ISOLATION & ANALYSIS OF RECOMBINATION GENES IN YEAST								
MICROBIOLOGY	GEN		04-01-82 03-31-83	1	21200	5	R01 GM 29172-02	125,273	82
** 1 TOTAL								125,273	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
NORTH CHICAGO	UNIVERSITY OF HLTH SCI/CHICAGO MED SCH								
DETKE, SIEGFRIED BIOCHEMISTRY	IDENTIFYING THE PROTEINS REGULATING THE X CHROMOSOMES MGN		09-15-82 08-31-83	1	21600	1	R01 GM 29110-01A1	166,526	82
** 1 TOTAL								166,526	
ROCKFORD	ROCKFORD SCHOOL OF MEDICINE								
PACK, GEORGE R BIOMEDICAL SCIENCES	THEORY OF CATION INDUCED CONFORMATION CHANGES IN DNA BBCA		04-01-82 03-31-83	1	21100	5	R01 GM 29079-02	62,718	82
** 1 TOTAL								62,718	
URBANA	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN								
BEAK, PETER A CHEMISTRY	NEW SYNTHETIC METHODS USEFUL FOR CHEMOTHERAPEUTICS MCHA		08-01-82 07-31-83	2	11940	5	R01 GM 18874-11	76,096	82
BROWN, THEODORE L CHEMISTRY	NUCLEAR QUADRUPOLE DOUBLE RESONANCE SPECTROSCOPY BBCB		01-01-82 12-31-83	0	22500	5	R01 GM 23395-06	57,285	82
COATES, ROBERT M CHEMISTRY	SPECIFICITY IN TERPENE AND STEROL BIOSYNTHESIS MCHA		03-01-82 02-28-83	0	11920	5	R01 GM 13956-17	102,284	82
CROFTS, ANTONY R PHYSIOLOGY AND BIOPHYSICS	THE PROTON PUMPS OF PHOTOSYNTHETIC BACTERIA BBCA		04-01-82 03-31-83	0	22450	5	R01 GM 26305-04	106,962	82
CRONAN, JOHN E, JR MICROBIOLOGY	PROTEIN LIPID INTERACTION MBC		01-01-82 12-31-82	0	22400	5	R01 GM 26156-03	35,960	82
DANIEL, WILLIAM L GENETICS AND DEVELOPMENT	GENETIC ANALYSIS OF ARYLSULFATASE B VARIATION MGN		04-01-82 03-31-83	0	21320	5	R01 GM 27707-03	28,695	82

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS								
URBANA		UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN						
DEBRUNNER, PETER G PHYSICS	BBCB	RESONANCE SPECTROSCOPY OF ENZYMES 01-01-82 12-31-82	1	22500	5	R01 GM 16406-14	102,958	82
DENMARK, SCOTT E CHEMISTRY	MCHA	INTRAMOLECULAR NITROSOALKENE-OLEFIN CYCLOADDITIONS 08-01-82 07-31-83	2	11940	1	R01 GM 30938-01	50,336	82
DUNN, FLOYD ELECTRICAL ENGINEERING	RNM	ULTRASONIC ABSORPTION BY BIOLOGICAL MATERIALS 09-01-82 08-31-83	4	12910	2	R01 GM 12281-19	93,745	82
FRAUENFELDER, HANS PHYSICS	BBCB	HEME PROTEIN REACTIONS 06-01-82 05-31-83	2	22600	5	R01 GM 18051-11	129,182	82
FRIZZELL, LEON A ELECTRICAL ENGINEERING	SSS	ULTRASONICALLY INDUCED CAVITATION IN TISSUES 09-01-82 08-31-83	0	12910	5	R01 GM 28253-03	87,072	82
GARDNER, JEFFREY F MICROBIOLOGY	MG	REGULATORY MUTATIONS IN THE THREONINE OPERON 12-01-81 11-30-82	1	21750	5	R01 GM 28717-02	81,548	82
GLASER, MICHAEL BIOCHEMISTRY	CTY	LIPID METABOLISM AND MEMBRANE STRUCTURE AND FUNCTION 01-01-82 12-31-82	3	22300	5	R01 GM 21953-08	112,598	82
GUMPORT, RICHARD I CHEMISTRY	MG	STUDIES WITH T4 RNA LIGASE 12-01-81 11-30-82	4	21200	2	R01 GM 25621-04	101,453	82
GUNSALUS, IRWIN C BIOCHEMISTRY	BIO	PROTEIN STRUCTURE MODIFICATION AND OXIDATION 12-01-81 11-30-82	2	22500	5	R01 GM 21161-08	88,876	82
HAGER, LOWELL P BIOCHEMISTRY	BIO	ENZYMATIC ACTIVATION MECHANISMS 09-01-82 08-31-83	0	22400	5	R01 GM 07768-23	116,504	82
JAEHNING, JUDITH A BIOCHEMISTRY	GEN	RECONSTRUCTION OF SPECIFIC TRANSCRIPTION IN YEAST 04-01-82 03-31-83	1	21310	5	R01 GM 29118-02	71,953	82
KAPLAN, SAMUEL MICROBIOLOGY	MBC	INDUCTION AND BIOGENESIS OF SUBCELLULAR ORGANELLES 01-01-82 12-31-82	2	22300	5	R01 GM 15590-16	110,989	82
KAUFMAN, STEPHEN J MICROBIOLOGY	CTY	IMMUNOCHEMICAL ANALYSIS OF MYOBLAST DIFFERENTIATION 08-01-82 07-31-83	0	22200	5	R01 GM 28842-03	83,858	82
KEMPER, BYRON W PHYSIOLOGY AND BIOPHYSICS	MBY	STRUCTURE AND FUNCTION OF CYTOCHROME P-450 GENES 05-01-82 04-30-83	0	11760	5	R01 GM 27718-03	55,876	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
URBANA	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN								
LEONARD, NELSON J	NUCLEOSIDES, NUCLEIC ACIDS, AND CELL DIVISION FACTORS								
CHEMISTRY	MCHA		12-01-81 11-30-82	2	11910	5	R01 GM 05829-24	158,763	82
NANNEY, DAVID L	GENETIC STUDIES WITH TETRAHYMENA								
GENETICS AND DEVELOPMENT	GEN		03-01-82 02-28-83	4	21700	2	R01 GM 07779-20	151,087	82
O'BRIEN, WILLIAM D, JR	ULTRASONIC PROPAGATION PROPERTIES IN INTACT TISSUE								
ELECTRICAL ENGINEERING	RAD		07-01-81 12-31-82	0	12910	5	R01 GM 24994-04	126,206	81
O'BRIEN, WILLIAM D, JR	THEORETICAL ULTRASONIC DOSIMETRY								
ELECTRICAL ENGINEERING	RNM		05-01-82 04-30-83	2	12910	1	R01 GM 30481-01	35,181	82
RINEHART, KENNETH L, JR	HIGH RESOLUTION MASS SPECTRA OF BIOORGANIC COMPOUNDS								
CHEMISTRY	SSS		05-01-82 04-30-83	1	12840	5	R01 GM 27029-13	107,664	82
SCHUSTER, GARY B	PROTON TRANSFER REACTIONS AND PROTON MOBILITY IN WATER								
CHEMISTRY	BBCA		07-01-82 06-30-83	0	22500	5	R01 GM 28190-03	43,076	82
SCOTT, JOHN F	THE ENZYMOLOGY OF DNA REPLICATION IN YEAST								
MICROBIOLOGY	MBY		08-01-81 07-31-83	0	21200	7	R01 GM 30602-01	87,561	81
SCOTT, ROBERT A	ELECTROSTATIC EFFECTS IN CYTOCHROME C ELECTRON TRANSFER								
CHEMISTRY	PB		07-01-82 06-30-83	2	22450	1	R01 GM 30975-01	65,435	82
SLIGAR, STEPHEN G	HEME PROTEIN REDUCTASES								
BIOCHEMISTRY	PB		08-01-82 07-31-83	3	22450	7	R01 GM 31756-01	114,616	82
STAPLETON, HARVEY J	ELECTRON SPIN RELAXATION AT ACTIVE SITES IN PROTEINS								
PHYSICS	BMT		05-01-81 04-30-83	0	22500	5	R01 GM 24488-03	55,799	81
UHLENBECK, OLKE C	STRUCTURE AND FUNCTION OF RIBONUCLEIC ACID								
BIOCHEMISTRY	BBCA		01-01-82 12-31-82	0	21100	5	R01 GM 19059-11	102,215	82
UHLENBECK, OLKE C	ANTICODON LOOP SUBSTITUTION IN TRNA								
BIOCHEMISTRY	BBCA		05-01-82 04-30-83	2	21320	1	R01 GM 30418-01	73,313	82
WEBER, GREGORIO	PROTEIN CONFIGURATION BY FLUORESCENCE TECHNIQUES								
BIOCHEMISTRY	BBCA		05-01-82 04-30-83	0	22500	5	R01 GM 11223-20	178,633	82
WILLIS, JOHN S	ION TRANSPORT IN CELLS OF HIBERNATING MAMMALS								
PHYSIOLOGY AND BIOPHYSICS	PHY		12-01-81 11-30-82	0	22300	5	R01 GM 11494-18	90,740	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ILLINOIS									
URBANA	UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN								
YANKWICH, PETER E	MODELING THE TRANSITION STATE OF ENZYMIC REACTIONS								
CHEMISTRY	BBCA		06-01-81 05-31-83	1	11920	5	R01 GM 18362-05	45,234	81
** 35 TOTAL								3,129,753	
*** 0 *CENTERS								0	
*** 133 NONCENTER								12,812,732	
*** 133 TOTAL								12,812,732	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
INDIANA									
BLOOMINGTON	INDIANA UNIVERSITY BLOOMINGTON								
ALLERHAND, ADAM	CARBON-13 NMR STUDIES OF SPECIFIC SITES IN PROTEINS								
CHEMISTRY	BBCA		03-01-81 02-28-83	0	22500	5	R01 GM 22620-06	68,911	81
BARTMESS, JOHN E	HYDROGEN BONDING STRENGTHS OF SINGLE MOLECULES TO ANIONS								
CHEMISTRY	BBCA		04-01-82 03-31-83	0	11920	5	R01 GM 27743-03	27,953	82
BLUMENTHAL, THOMAS	OVERLAPPING GENES OF RNA PHAGES								
BIOLOGY	VR		12-01-81 11-30-82	0	21280	5	R01 GM 27148-03	58,785	82
BLUMENTHAL, THOMAS	DEVELOPMENTALLY REGULATED GENES OF C. ELEGANS								
BIOLOGY	GEN		09-01-82 08-31-83	4	21700	1	R01 GM 30870-01	167,343	82
BONNER, JAMES J	MOLECULAR DISSECTION OF GENE REGULATION IN DROSOPHILA								
BIOLOGY	GEN		08-01-81 11-30-82	0	21700	5	R01 GM 26693-03	64,960	81
BONNER, JAMES J	MOLECULAR DISSECTION OF GENE REGULATION IN DROSOPHILA								
BIOLOGY	GEN		08-01-81 11-30-82	0	21700	3	R01 GM 26693-03S1	20,242	82
BRIGGS, ROBERT W	A TEMPERATURE SENSITIVE, MATERNAL-EFFECT MUTATION								
BIOLOGY	GEN		08-01-82 07-31-83	1	21700	5	R01 GM 29307-02	39,211	82
CHOOI, YEAN W	RIBOSOMAL TRANSCRIPTION UNITS IN DROSOPHILA MELANOGASTER								
BIOLOGY	MBY		07-01-82 06-30-83	3	21320	5	R01 GM 23410-05	97,146	82
FROMMER, GABRIEL P	SOMATOSENSORY FUNCTION DURING ANALGESIA								
PSYCHOLOGY	BPNB		09-01-81 01-31-83	0	13700	5	R01 GM 29254-02	26,597	81
HECKMAN, JOYCE E	NUCLEAR GENES FOR MITOCHONDIAL PROTEINS IN NEUROSPORA								
CHEMISTRY	GEN		02-01-82 01-31-83	2	21280	1	R01 GM 29478-01	99,732	82
JASKUNAS, S RICHARD	GENETIC REARRANGEMENTS								
CHEMISTRY	MG		12-01-81 11-30-82	1	21780	5	R01 GM 24347-05	110,200	82
KAUFMAN, THOMAS C	MOLECULAR ANALYSIS OF DEVELOPMENT-REGULATING GENES								
BIOLOGY	GEN		09-01-82 08-31-83	1	21700	5	R01 GM 29709-02	71,004	82
KAUFMAN, THOMAS C	THE GENETIC CONTROL OF MORPHOGENESIS IN DROSOPHILA								
BIOLOGY	GEN		08-01-82 07-31-83	0	21700	5	R01 GM 24299-06	98,981	82
LEWIN, ALFRED S	REGULATION OF MITOCHONDRIAL ASSEMBLY								
CHEMISTRY	MBY		07-01-82 06-30-83	1	21280	5	R01 GM 29387-02	98,136	82

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
INDIANA							
BLOOMINGTON	INDIANA UNIVERSITY BLOOMINGTON						
MAGNUS, PHILIP D CHEMISTRY	MCHA	SYNTHESIS OF MOLECULES OF BIOLOGICAL INTEREST 04-01-82 03-31-83	2	11940	1 R01 GM 29801-01A1	92,857	82
MAHLER, HENRY R CHEMISTRY	BIO	THE BIOSYNTHESIS OF RESPIRATORY ENZYMES 04-01-82 03-31-83	1	22450	5 R01 GM 12228-19	155,288	82
NOVOTNY, MILOS V CHEMISTRY	BMT	IMPROVE BIOCHEM HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY 12-01-81 11-30-82	2	12820	2 R01 GM 24349-04	88,072	82
POLISKY, BARRY A BIOLOGY	MG	MOLECULAR BASIS OF UNCONTROLLED REPLICATION 07-01-82 06-30-83	2	21200	5 R01 GM 24212-06	102,889	82
RICHARDSON, JOHN P CHEMISTRY	BIO	ENZYMES OF NUCLEAR RNA METABOLISM 05-01-81 04-30-83	0	21320	5 R01 GM 26038-03	43,477	81
SURZYCKI, STEFAN J BIOLOGY	GEN	TRANSCRIPTION OF CHLOROPLAST DNA OF C. REINHARDI 08-01-82 07-31-83	0	21280	5 R01 GM 22968-07	68,557	82
** 19 TOTAL						1,600,341	
INDIANAPOLIS	INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS						
BOCKRATH, RICHARD C MICROBIOLOGY AND IMMUNOLOGY	RAD	RADIATION INDUCED CELLULAR MUTAGENESIS AND DNA REPAIR 02-01-82 01-31-83	1	21250	5 R01 GM 21788-08	62,060	82
BRYAN, WILLIAM P BIOCHEMISTRY	BBCA	THE ROLE OF WATER IN PROTEIN STRUCTURE AND FUNCTION 04-01-82 03-31-83	0	22500	5 R01 GM 27036-03	52,574	82
CONNEALLY, P MICHAEL MEDICAL GENETICS	MGN	GENETIC LINKAGE STUDIES OF HUNTINGTON'S DISEASE 01-01-82 12-31-82	2	21480	5 R01 GM 26659-03	82,708	82
HAMILTON, JEAN A BIOCHEMISTRY	BBCA	STRUCTURAL STUDIES ON COMPLEXES BY X-RAY DIFFRACTION 04-01-82 03-31-83	2	22550	2 R01 GM 24623-04	55,094	82
JARRETT, HARRY W BIOLOGY	CTY	STRUCTURE-FUNCTION RELATIONSHIPS INVOLVING CALMODULIN 09-01-82 02-28-83	2	22400	7 R01 GM 31733-01	37,006	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
INDIANA										
INDIANAPOLIS	INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS									
MESCHER, ANTHONY LOUIS	INJURY-INDUCED GROWTH AND MYELIN-DERIVED GROWTH FACTORS									
ANATOMY	CBY		06-01-82 05-31-83	0	13410	5	R01 GM	31080-02	39,123	82
O'DONNELL, MARTIN J	SCHIFF BASE SYNTHONS IN AMINO ACID CHEMISTRY									
CHEMISTRY	MCHA		08-01-82 07-31-83	0	11930	5	R01 GM	28193-03	68,849	82
ROESKE, ROGER W	CHARACTERIZATION OF MEMBRANE-ACTIVE PEPTIDES									
BIOCHEMISTRY	BBCA		12-01-81 11-30-82	0	22300	5	R01 GM	27170-03	88,954	82
** 8 TOTAL									486,368	
INDIANAPOLIS	INDIANAPOLIS CENTER FOR ADVANCED RES									
GOSS, STEPHEN A	NONLINEAR ULTRASOUND PROPAGATION IN BIOLOGICAL TISSUE									
ULTRASOUND RESEARCH DIVISION	RNM		07-01-82 06-30-83	2	12910	1	R01 GM	30593-01	62,703	82
** 1 TOTAL									62,703	
NOTRE DAME	UNIVERSITY OF NOTRE DAME									
MARSHALL, JAMES J	SYNTHETIC CARBOHYDRATE-PROTEIN CONJUGATES									
MICROBIOLOGY	PC		04-01-81 09-30-82	0	22500	5	R01 GM	29242-02	92,632	81
MILLER, MARVIN J	SYNTHESIS OF BETA-LACTAMS FROM HYDROXAMIC ACIDS									
CHEMISTRY	BNP		07-01-82 06-30-83	2	11930	2	R01 GM	26867-04	120,723	82
MILLER, MARVIN J	SYNTHESIS OF FERRICHROMES AND RELATED IRON CHELATORS									
CHEMISTRY	BMT		09-22-82 08-31-83	2	11920	2	R01 GM	25845-04	71,899	82
** 3 TOTAL									285,254	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
INDIANA									
TERRE HAUTE	INDIANA STATE UNIVERSITY TERRE HAUTE								
STILES, JOHN I	GENETIC AND PHYSICAL ANALYSIS OF THE COR REGION IN YEAST								
LIFE SCIENCES	GEN		04-01-82 03-31-83	1	21600	5	R01 GM 29011-02	43,358	82
** 1 TOTAL								43,358	
WEST LAFAYETTE	PURDUE UNIVERSITY WEST LAFAYETTE								
ARGOS, PATRICK	STRUCTURAL STUDIES OF THE PHOSPHORIBOSYLTRANSFERASES								
BIOLOGICAL SCIENCES	BBCB		06-01-82 05-31-83	0	22550	5	R01 GM 27100-03	50,636	82
ARGOS, PATRICK	COMPARISON AND PREDICTION OF PROTEIN STRUCTURE								
BIOLOGICAL SCIENCES	BBCB		08-01-82 07-31-83	0	22550	5	R01 GM 27682-03	38,156	82
ARNOTT, STRUTHER	MOLECULAR GEOMETRIES OF NUCLEIC ACIDS								
BIOLOGICAL SCIENCES	BBCA		09-01-82 08-31-83	1	21100	5	R01 GM 17371-10	83,553	82
ARNOTT, STRUTHER	GLYCOSAMINOGLYCAN AND PROTEOGLYCAN STRUCTURES								
BIOLOGICAL SCIENCES	BBCB		06-01-82 05-31-83	0	22550	5	R01 GM 20682-09	100,872	82
ARONSON, ARTHUR I	MORPHOGENETIC PROCESSES IN BACTERIAL SPORULATION								
BIOLOGICAL SCIENCES	MBC		04-01-82 03-31-83	4	21320	2	R01 GM 20606-09	106,327	82
AXELROD, BERNARD	IDENTIFICATION OF PHOSPHATE-BINDING SITES IN PROTEINS								
BIOCHEMISTRY	BIO		04-01-81 09-30-82	0	22400	5	R01 GM 27700-02	81,724	81
BROWN, HERBERT C	STEREOSPECIFIC SYNTHESES VIA HYDROBORATION								
CHEMISTRY	MCHA		07-01-82 06-30-83	3	11940	5	R01 GM 10937-20	116,820	82
BUTLER, LARRY G	RELATIONSHIPS OF PHOSPHOMONO- AND PHOSPHODIESTERASES								
BIOCHEMISTRY	BIO		07-01-82 06-30-83	2	22400	5	R01 GM 23028-06	76,766	82
CRAMER, WILLIAM A	THE MECHANISM OF ACTION OF COLICIN								
BIOLOGICAL SCIENCES	BBCB		09-01-82 08-31-83	1	22300	5	R01 GM 18457-12	86,012	82
CUSHMAN, MARK S	NEW ALKALOID SYNTHESES								
MEDICINAL CHEM & PHARMACOGNOSY	MCHA		07-01-82 06-30-83	2	11910	9	R01 GM 30932-07	74,966	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
INDIANA									
WEST LAFAYETTE	PURDUE UNIVERSITY WEST LAFAYETTE								
DILLEY, RICHARD A	PROTON-MEMBRANE INTERACTIONS IN BIOENERGETICS								
BIOLOGICAL SCIENCES	BIO		09-01-81 02-28-83	0	22450	5	R01 GM 19595-09	62,158	81
FLOSS, HEINZ G	BIOSYNTHESIS OF ERGOT ALKALOIDS								
MEDICINAL CHEM & PHARMACOGNOSY	BNP		09-01-82 08-31-83	1	11910	5	R01 GM 29784-14	103,921	82
FLOSS, HEINZ G	STEREOCHEMISTRY OF ENZYME REACTIONS								
MEDICINAL CHEM & PHARMACOGNOSY	BIO		09-01-82 08-31-83	2	11920	5	R01 GM 18852-12	134,617	82
GILHAM, P T	SYNTHESIS OF POLYRIBONUCLEOTIDES OF DEFINED SEQUENCE								
BIOLOGICAL SCIENCES	BIO		05-01-82 04-30-83	4	21100	2	R01 GM 19395-11	96,556	82
GILHAM, PETER T	FINE STRUCTURE OF NUCLEIC ACIDS								
BIOLOGICAL SCIENCES	BIO		07-01-82 06-30-83	1	21100	5	R01 GM 11518-18	68,917	82
HARTL, DANIEL L	MEASURES OF POPULATION FITNESS IN DROSOPHILA								
BIOLOGICAL SCIENCES	GEN		12-01-81 11-30-82	2	21800	1	R01 GM 30351-01	137,250	82
HERMODSON, MARK A	AMINO ACID SEQUENCES OF BINDING PROTEINS								
BIOCHEMISTRY	PC		04-01-82 03-31-83	3	22500	5	R01 GM 24602-05	108,996	82
JONES, NICHOLAS C	THE MECHANISM AND REGULATION OF RNA SPLICING								
BIOLOGICAL SCIENCES	EVR		05-01-82 04-30-83	2	21750	1	R01 GM 30636-01	76,600	82
KISSINGER, PETER T	N-ACETYL-P-QUINONEIMINE IN ACETAMINOPHEN TOXICITY								
CHEMISTRY	TOX		04-01-81 09-30-82	0	11890	5	R01 GM 26283-03	73,167	81
KOHLHAW, GUNTER B	REGULATION OF LEUCINE BIOSYNTHESIS								
BIOCHEMISTRY	BIO		12-01-81 11-30-82	1	22400	5	R01 GM 15102-15	78,923	82
LASKOWSKI, MICHAEL, JR	PROTEIN PROTEINASE INHIBITORS								
CHEMISTRY	PC		09-01-82 08-31-83	3	22500	5	R01 GM 10831-24	259,889	82
LIGHT, ALBERT	BOVINE ENTEROKINASE STRUCTURE AND FUNCTION								
CHEMISTRY	PC		05-01-82 04-30-83	0	22500	5	R01 GM 22261-08	68,263	82
LOUDON, G MARC	CARBOXYL-TERMINAL PEPTIDE SEQUENCING								
MEDICINAL CHEM & PHARMACOGNOSY	MCHA		09-01-82 08-31-83	1	11440	5	R01 GM 28850-02	100,317	82
LOW, PHILIP S	DRUG DISTRIBUTION PATTERNS IN BIOLOGICAL MEMBRANES								
CHEMISTRY	BBCB		09-28-82 08-31-83	2	22300	1	R01 GM 29643-01	41,733	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
INDIANA								
WEST LAFAYETTE	PURDUE UNIVERSITY WEST LAFAYETTE							
MARGERUM, DALE W CHEMISTRY	METAL ION TRANSFER AND CATALYSIS IN PEPTIDE COMPLEXES BMT	12-01-81 11-30-82	2	11920	5	R01 GM 12152-18	75,973	82
MARKLEY, JOHN L CHEMISTRY	NMR SPECTROSCOPY IN PROTEIN CHEMISTRY BBCA	06-01-82 05-31-83	0	22500	5	R01 GM 19907-10	92,092	82
MC MILLIN, DAVID R CHEMISTRY	COPPER PROTEINS: ASPECTS OF STRUCTURE AND DYNAMICS BMT	09-01-82 08-31-83	2	22500	2	R01 GM 22764-07	103,540	82
NEGISHI, EI-ICHI CHEMISTRY	OLEFINS AND CHIRAL ALIPHATICS VIA ORGANOMETALLICS BMT	09-01-82 08-31-83	2	11940	2	R01 GM 27947-03	78,119	82
PARDUE, HARRY L CHEMISTRY	INSTRUMENTATION FOR FAST CLINICAL ANALYSES BMT	12-01-81 11-30-82	0	12820	5	R01 GM 13326-15	112,151	82
PROHOFSKY, EARL W PHYSICS	MOTIONAL DYNAMICS OF DNA HELICES BBCA	01-01-82 12-31-82	0	21100	5	R01 GM 24443-05	85,414	82
RAY, WILLIAM J, JR BIOLOGICAL SCIENCES	MECHANISM OF THE GROUP TRANSFER PROCESS PB	12-01-81 11-30-82	1	22400	5	R01 GM 08963-20	141,255	82
REGNIER, FRED E BIOCHEMISTRY	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY OF PROTEINS SSS	07-01-82 06-30-83	0	12820	5	R01 GM 25431-05	90,033	82
ROSSMANN, MICHAEL G BIOLOGICAL SCIENCES	STRUCTURAL STUDIES OF PROTEIN SUBUNITS BBCB	06-01-82 05-31-83	0	22550	5	R01 GM 10704-20	145,537	82
SOMERVILLE, RONALD L BIOCHEMISTRY	REGULATORY MECHANISMS IN TRYPTOPHAN BIOSYNTHESIS MBC	07-01-82 06-30-83	2	21750	2	R01 GM 22131-08	122,806	82
STEIN, ARNOLD BIOLOGICAL SCIENCES	CHROMATIN ASSEMBLY AND DISASSEMBLY BY PROTEINS MBY	05-01-82 04-30-83	0	21600	5	R01 GM 27719-03	92,190	82
STROBEL, EDWARD BIOLOGICAL SCIENCES	CHROMOSOME ORGANIZATION AND STABILITY GEN	04-01-82 03-31-83	1	21600	5	R01 GM 29097-02	64,389	82
TESSMAN, ETHEL S BIOLOGICAL SCIENCES	DNA REPLICATION IN E. COLI MG	08-01-82 07-31-83	2	21200	1	R01 GM 30435-01	93,834	82
UMBARGER, H EDWIN BIOLOGICAL SCIENCES	ENZYMIC MECHANISMS IN BIOSYNTHETIC PATHWAYS MG	12-01-81 11-30-82	4	21750	2	R01 GM 12522-18	220,069	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
INDIANA										
WEST LAFAYETTE	PURDUE UNIVERSITY WEST LAFAYETTE									
VAN ETTEN, ROBERT L	THE ANOMALOUS KINETICS OF ARYL SULFATASE A									
CHEMISTRY	BIO		01-01-82 12-31-82	3	22400	5	R01 GM	22933-05	102,010	82
VAN ETTEN, ROBERT L	THE ACTIVE SITES OF ACID PHOSPHATASES									
CHEMISTRY	BIO		07-01-82 06-30-83	1	22400	5	R01 GM	27003-13	96,878	82
WEITH, HERBERT L, III	SYNTHESIS OF LONG POLYNUCLEOTIDES OF DEFINED SEQUENCE									
BIOCHEMISTRY	BIO		05-01-82 04-30-83	1	21100	5	R01 GM	29144-02	74,806	82
ZALKIN, HOWARD	GLUTAMINE AMIDOTRANSFERASE STRUCTURE/FUNCTION/REGULATION									
BIOCHEMISTRY	MBC		07-01-82 06-30-83	4	22400	2	R01 GM	24658-12	137,158	82
** 42 TOTAL									4,155,443	
*** 0 *CENTERS									0	
*** 74 NONCENTER									6,633,467	
*** 74 TOTAL									6,633,467	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
IOWA									
AMES	IOWA STATE UNIVERSITY OF SCIENCE & TECH								
APPLEQUIST, JON B	THEORY OF MOLECULAR OPTICAL PROPERTIES								
BIOCHEMISTRY AND BIOPHYSICS	BBCA	09-01-82 08-31-83	2	22600	5	R01 GM	13684-16	49,392	82
GRAVES, DONALD J	INTERCONVERSION & REGULATION OF GLYCOGEN METABOLISM								
BIOCHEMISTRY AND BIOPHYSICS	BIO	01-01-82 12-31-82	2	22400	5	R01 GM	09587-21	85,955	82
HOFFMANN, RICHARD J	FUNCTION OF GENETICALLY DETERMINED ENZYME VARIATION								
ZOOLOGY	GEN	06-01-81 11-30-82	0	21800	5	R01 GM	28024-02	55,948	81
HOROWITZ, JACK	STRUCTURAL BASIS OF RIBONUCLEIC ACID SPECIFICITY								
BIOCHEMISTRY AND BIOPHYSICS	PC	12-01-81 11-30-82	1	21320	5	R01 GM	09042-20	72,722	82
KRAUS, GEORGE A	SILYL ENONES IN ANTHRACYCLINE SYNTHESIS								
CHEMISTRY	MCHA	03-01-82 02-28-83	0	11940	5	R01 GM	24474-05	57,282	82
KRAUS, GEORGE A	NIGMS SHARED INSTRUMENTATION PROGRAM--200 MHZ NMR								
CHEMISTRY	SSS	09-01-81 08-31-83	0	12900	5	P41 GM	27433-03	26,505	81
LAROCK, RICHARD C	SYNTHESIS OF BIOLOGICALLY ACTIVE HETEROCYCLES								
CHEMISTRY	BMT	09-01-82 08-31-83	0	11910	5	R01 GM	24254-06	74,539	82
OLSON, JAMES	MECHANISM OF AMYLASE ACTION								
BIOCHEMISTRY AND BIOPHYSICS	PC	04-01-81 03-31-83	0	22400	5	R01 GM	08822-20	87,259	81
STADLER, JOAN K	MUTANTS OF MEMBRANE FUNCTION IN MAMMALIAN CELLS								
GENETICS	MGN	12-01-81 11-30-82	1	22300	5	R01 GM	25728-04	62,304	82
** 9 TOTAL								571,906	
IOWA CITY	UNIVERSITY OF IOWA								
ANDERSON, GARY L	PYRIDO(2.3-D)PYRIMIDINE RIBONUCLEOSIDES								
MED CHEM AND NATURAL PRODUCTS	MCHA	06-01-82 05-31-83	0	11920	5	R01 GM	29767-02	39,330	82
CHALKLEY, ROGER G	STRUCTURE AND FUNCTION OF CHROMOSOMAL NUCLEOHISTONE								
BIOCHEMISTRY	CTY	05-01-82 04-30-83	1	21600	5	R01 GM	28817-15	110,832	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
IOWA										
IOWA CITY	UNIVERSITY OF IOWA									
CHALKLEY, ROGER G	REPLICATION AND ACETYLATION OF HEPATOMA CHROMATIN									
BIOCHEMISTRY	CTY		01-01-82 12-31-82	0	21600	5	R01 GM	27228-03	93,957	82
COFFMAN, ROBERT E	ELECTRONIC AND MAGNETIC INTERACTIONS OF ADENOSYLCOBALAMI									
CHEMISTRY	BMT		09-01-82 08-31-83	2	11920	2	R01 GM	24480-04	73,253	82
COUCOUVANIS, DIMITRI N	IRON AND MOLYBDENUM COMPLEXES: ENZYME ACTIVE SITES									
CHEMISTRY	BMT		08-01-82 07-31-83	2	11920	2	R01 GM	26671-04	90,848	82
CRAWFORD, IRVING P	MUTATIONAL PERTURBATION OF SUBUNIT INTERACTIONS									
MICROBIOLOGY	MBC		04-01-81 03-31-83	0	22400	5	R01 GM	25735-04	78,430	81
DANIELS, LACY	CARBON AND ELECTRON TRANSFER IN BACTERIAL METHANOGENESIS									
MICROBIOLOGY	MBC		07-01-82 06-30-83	2	22400	1	R01 GM	30868-01	97,297	82
GOFF, HAROLD M	HIGH OXIDATION STATE IRON PORPHYRINS									
CHEMISTRY	BMT		08-01-82 07-31-83	0	22400	5	R01 GM	28831-03	43,155	82
JENNINGS, MICHAEL L	BIOCHEMICAL STUDIES OF ERYTHOCYTE ANION TRANSPORT									
PHYSIOLOGY AND BIOPHYSICS	PB		07-01-82 06-30-83	4	22300	2	R01 GM	26861-04	99,083	82
KAELBER, WILLIAM W	EXPERIMENTAL INVESTIGATION OF PAIN									
ANATOMY	NLS		06-01-81 05-31-83	0	13700	5	R01 GM	23336-06	73,495	81
LIU, Y KING	THE TRAUMATOLOGY OF THE HEAD AND SPINE									
ANATOMY	AFY		03-01-82 02-28-83	2	12320	2	R01 GM	26608-03A1	112,806	82
LONG, JOHN P	STRUCTURE ACTIVITY STUDIES OF PHARMACOLOGIC AGENTS									
PHARMACOLOGY	PTR		05-01-82 04-30-83	2	11900	2	P01 GM	22365-06A1	363,480	82
MENNINGER, JOHN R	CONTROL AND MECHANISM OF PROTEIN-CHAIN TERMINATION									
ZOOLOGY	PC		09-01-80 08-31-83	0	21320	5	R01 GM	20626-07	74,903	80
NEWLON, CAROL S	DNA REPLICATION IN SACCHAROMYCES CEREVISIAE									
ZOOLOGY	GEN		12-01-81 11-30-82	2	21200	5	R01 GM	21510-08	112,702	82
PANTAZIS, NICHOLAS J	FUNCTION AND MOLECULAR STRUCTURE OF GROWTH FACTORS									
ANATOMY	CP		12-01-81 11-30-82	1	22200	5	R01 GM	28644-02	59,410	82
SOLL, DAVID R	THE REGULATION OF TIMING IN DEVELOPING SYSTEMS									
ZOOLOGY	CTY		09-01-82 08-31-83	3	22200	2	R01 GM	25832-04	96,026	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
IOWA									
IOWA CITY	UNIVERSITY OF IOWA								
STAUFFER, GEORGE V	REGULATION OF ONE CARBON METABOLISM								
MICROBIOLOGY	MG	07-01-82 06-30-83	2	21750	2	R01 GM	26878-04	92,051	82
STELLWAGEN, EARLE C	AFFINITY CHROMATOGRAPHY FOR THE DINUCLEOTIDE FOLD								
BIOCHEMISTRY	BBCA	04-01-82 03-31-83	4	22500	2	R01 GM	22109-07	92,805	82
STELLWAGEN, EARLE C	STRUCTURE AND FUNCTION STUDIES OF CYTOCHROME C								
BIOCHEMISTRY	BBCB	12-01-81 11-30-83	0	22500	5	R01 GM	13215-17	50,494	82
STELLWAGEN, NANCY C	ELECTRIC BIREFRINGENCE OF DNA RESTRICTION FRAGMENTS								
BIOCHEMISTRY	BBCA	07-01-82 06-30-83	1	21100	5	R01 GM	29690-02	63,294	82
TEPHLY, THOMAS R	METHANOL POISONING								
PHARMACOLOGY	TOX	12-01-81 11-30-82	4	11790	2	R01 GM	19420-11	121,462	82
TEPHLY, THOMAS R	BOCHEMICAL TOXICOLOGY AND PHARMACOLOGY								
PHARMACOLOGY	PTR	12-01-81 11-30-82	1	11300	*3	P50 GM	12675-18S1	102,371	82
TEPHLY, THOMAS R	MORPHINE AND ESTROGEN GLUCURONYLTRANSFERASE ACTIVITIES								
PHARMACOLOGY	PHRA	04-01-81 03-31-83	0	11760	5	R01 GM	26221-03	61,752	81
TEPHLY, THOMAS R	BIOCHEMICAL TOXICOLOGY AND PHARMACOLOGY								
PHARMACOLOGY	PTR	12-01-81 11-30-82	1	11300	*5	P50 GM	12675-18	740,020	82
WEIL, PETER A	MOLECULAR CONTROL OF EUCARYOTIC TRANSCRIPTION								
BIOCHEMISTRY	GEN	07-01-82 06-30-83	2	21310	1	R01 GM	31219-01	88,119	82
** 25 TOTAL								3,031,375	
*** 2 *CENTERS								183,214	
*** 32 NONCENTER								3,420,067	
*** 34 TOTAL								3,603,281	

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KANSAS									
KANSAS CITY			UNIVERSITY OF KANSAS COL HLTH SCI & HOSP						
CALVET, JAMES P BIOCHEMISTRY	MBY		PATTERNS OF GENE TRANSCRIPTION IN HE LA CELLS 08-01-82 07-31-83	0	21750	5	R01 GM 30547-02	69,585	82
FISHER, HARVEY F BIOCHEMISTRY	BIO		STRUCTURE AND MECHANISMS OF ACTION OF ENZYMES 04-01-82 03-31-83	4	22400	2	R01 GM 15188-15A1	95,366	82
HELMKAMP, GEORGE M, JR BIOCHEMISTRY	PC		MEMBRANE-PHOSPHOLIPID EXCHANGE PROTEIN INTERACTIONS 07-01-82 06-30-83	0	22300	5	R01 GM 24035-06	71,073	32
KINSEY, JOHN A MICROBIOLOGY	GEN		GENETIC STUDIES OF GLUTAMATE DEHYDROGENASE MUTANTS 09-15-82 08-31-83	2	21750	2	R01 GM 23967-04A1	79,561	82
LUTKENHAUS, JOSEPH F MICROBIOLOGY	MG		REGULATION OF EXPRESSION OF CELL DIVISION GENES 07-01-82 06-30-83	1	21750	5	R01 GM 29764-02	83,012	82
WONG, KIN-PING BIOCHEMISTRY	BBCA		RIBOSOMAL PROTEINS, PROTEIN-RNA INTERACTION & FUNCTION 03-01-81 12-31-82	0	21320	5	R01 GM 22962-05	64,399	81
YARBROUGH, LYNWOOD R BIOCHEMISTRY	BBCA		MOLECULAR MECHANISMS OF TUBULIN-LIGAND INTERACTIONS 05-01-82 04-30-83	1	22250	5	R01 GM 24599-05	66,841	82
** 7 TOTAL								529,837	
LAWRENCE			UNIVERSITY OF KANSAS LAWRENCE						
AMIDON, GORDON L PHARMACEUTICAL CHEMISTRY	PHRA		DRUG ABSORPTION THROUGH MEMBRANE METABOLISM 07-01-82 06-30-83	0	11750	7	R01 GM 31568-01	45,695	82
BORCHARDT, RONALD T BIOCHEMISTRY	PBC		STRUCTURAL ANALOGS OF S-ADENOSYLMETHIONINE 12-01-81 11-30-82	3	11930	5	R01 GM 29332-09	91,272	82
BURCHILL, BROWER R PHYSIOLOGY AND CELL BIOLOGY	CBY		ROLE OF THE CILIATE CORTEX IN METABOLIC REGULATION 07-01-81 12-31-82	0	22250	5	R01 GM 24878-03	30,051	81
BURTON, PAUL R PHYSIOLOGY AND CELL BIOLOGY	CBY		EM STUDIES OF SPERM AND NERVE: FOCUS ON MICROTUBULES 06-01-81 11-30-82	0	22250	5	R01 GM 24992-17	40,013	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KANSAS									
LAWRENCE	UNIVERSITY OF KANSAS LAWRENCE								
GIVENS, RICHARD S	EXPLORATORY AND SYNTHETIC PHOTOCHEMISTRY								
CHEMISTRY	MCHA		07-01-81 11-30-82	0	11940	5	R01 GM 16611-12	54,008	81
GRUNEWALD, GARY L	CONFORMATIONALLY DEFINED ADRENERGIC AMINES								
MEDICINAL CHEMISTRY	BNP		07-01-82 06-30-83	2	11770	2	R01 GM 22988-07	60,235	82
HANZLIK, ROBERT P	THE ROLE OF EPOXIDES IN METABOLISM AND DRUG TOXICITY								
MEDICINAL CHEMISTRY	TOX		08-01-82 07-31-83	2	11920	2	R01 GM 21784-08	89,679	82
MITSCHER, LESTER A	VERSATILE SYNTHESIS OF OPTICALLY PURE PROSTAGLANDINS								
MEDICINAL CHEMISTRY	MCHA		01-01-81 12-31-82	0	11910	5	R01 GM 26553-03	64,807	81
SCHOWEN, RICHARD L	ENZYME-EFFECTOR DESIGN								
CHEMISTRY	BIO	1	07-01-82 06-30-83	2	11920	2	R01 GM 20198-09	116,275	82
SCHOWEN, RICHARD L	BIOLOGICAL TRANSMETHYLATION								
CHEMISTRY	PB		12-01-81 11-30-82	2	11920	2	R01 GM 20199-07	86,393	82
WEAVER, ROBERT F	TRANSCRIPTION CONTROL IN NUCLEAR POLYHEDROSIS VIRUS								
BIOCHEMISTRY	BIO	1	07-01-82 06-30-83	2	21750	2	R01 GM 22127-07A1	33,935	82
WILEY, ROBERT A	FURAN LUNG TOXINS: ORGAN SPECIFICITY AND METABOLISM								
MEDICINAL CHEMISTRY	TOX		04-01-81 11-30-82	0	11890	5	R01 GM 26366-03	52,380	81
** 12 TOTAL								764,743	
MANHATTAN	KANSAS STATE UNIVERSITY								
COX, DAVID J	SELF-ASSOCIATION REACTIONS OF MACROMOLECULES								
BIOCHEMISTRY	BBCB		08-01-82 07-31-83	2	22500	2	R01 GM 22243-07A1	55,980	82
DAVIS, LAWRENCE C	DIRECT SCANNING GEL FILTRATION ON INTERACTING SYSTEMS								
BIOCHEMISTRY	BBCA		06-01-82 05-31-83	2	22500	2	R01 GM 23039-06	26,905	82
DENELL, ROBIN E	A DEVELOPMENTAL GENETIC ANALYSIS OF THE CELL SURFACE								
DIVISION OF BIOLOGY	GEN		01-01-82 12-31-82	0	21700	5	R01 GM 27195-03	56,633	82

INVESTIGATOR DEPARTMENT	IRG	SUB	START AND END DATES (PROJECT TITLE)	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KANSAS									
MANHATTAN			KANSAS STATE UNIVERSITY						
MANNEY, THOMAS R PHYSICS	GEN		GENE FUNCTIONS ASSOCIATED WITH MATING IN YEAST 12-01-81 11-30-82	0	21700	5	R01 GM 19175-11	83,598	82
REECK, GERALD R BIOCHEMISTRY	PC		INTERACTIONS OF HMG PROTEINS WITH DNA 04-01-82 03-31-83	1	21600	5	R01 GM 29203-02	37,636	82
ROUFA, DONALD J DIVISION OF BIOLOGY	MGN		GENETICS OF THE MAMMALIAN 80S RIBOSOME 08-01-82 07-31-83	2	21320	2	R01 GM 23013-05A1	85,939	82
** 6 TOTAL								346,691	
*** 0 *CENTERS								0	
*** 25 NONCENTER								1,641,271	
*** 25 TOTAL								1,641,271	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KENTUCKY									
LEXINGTON	UNIVERSITY OF KENTUCKY								
BARKLEY, MARY D	PHYSICAL STUDIES OF PROTEIN-DNA INTERACTIONS								
BIOCHEMISTRY	BBCA		09-01-82 08-31-83	2	21100	2	R01 GM 22873-08	101,307	82
CALKINS, JOHN	ACTION SPECTRA OF GENETIC TOXICITIES OF UV RADIATIONS								
E MC DOWELL CMTY CANCER NETWK	RAD		04-01-81 12-31-82	0	21250	5	R01 GM 28351-02	59,122	81
DEIBEL, MARTIN R, JR	TERMINAL TRANSFERASE ENZYMATIC AND ACTIVE SITE STUDIES								
BIOCHEMISTRY	BIO	1	07-01-82 06-30-83	2	21250	1	R01 GM 31076-01	74,908	82
DICKSON, ROBERT C	EUCARYOTIC ENZYME INDUCTION: B-GALACTOSIDASE IN YEAST								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	4	21750	2	R01 GM 22749-07	126,070	82
HANSON, BARBARA A	MANNAN SYNTHESIS INHIBITION BY INOSITOL STARVATION								
T H MORGAN SCHOOL OF BIOL SCIS	PC		08-01-82 07-31-83	0	22410	5	R01 GM 28286-03	34,440	82
LAINE, ROGER A	CHEMISTRY OF CELL-SURFACE AND RELEASED GLYCOPROTEINS								
BIOCHEMISTRY	PBC		07-01-82 06-30-83	0	22410	5	R01 GM 23902-06	115,813	82
RHOADS, ROBERT F	REGULATION OF OVALBUMIN SYNTHESIS IN CHICK OVIDUCT								
BIOCHEMISTRY	PC		04-01-81 11-30-82	0	21320	5	R01 GM 20818-08	96,944	81
TAI, HSIN-HSIUNG	ENZYMES IN PROSTAGLANDIN METABOLISM								
MEDICINAL CHEM & PHARMACOGNOSY	BIO		09-01-82 08-31-83	0	22400	5	R01 GM 30380-02	55,048	82
TAI, HSIN-HSIUNG	ENZYMES IN PROSTAGLANDIN METABOLISM								
MEDICINAL CHEM & PHARMACOGNOSY	BIO		05-01-82 04-30-83	1	22400	1	R01 GM 31454-01	34,555	82
** 9 TOTAL								698,207	
LOUISVILLE	UNIVERSITY OF LOUISVILLE								
FELDHOFF, RICHARD C	HUMAN PLASMA ALBUMIN: LIGAND BINDING								
BIOCHEMISTRY	PBC		08-01-82 07-31-83	2	11850	1	R01 GM 29434-01A1	62,220	82
GRAY, ROBERT D	CARBON MONOXIDE BINDING TO CYTOCHROMES P-450 & P-448								
BIOCHEMISTRY	BMT		07-01-81 06-30-83	0	11860	5	R01 GM 25738-03	52,759	81

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KENTUCKY									
LOUISVILLE			UNIVERSITY OF LOUISVILLE						
WILLIAMS, DONALD E / CHEMISTRY	BBCA		INTERMOLECULAR INTERACTIONS IN AMINO ACIDS AND PEPTIDES / 01-01-82 12-31-82	1	22600	5	R01 GM 16260-14	52,444	82
** 3 TOTAL								167,423	
*** 0 *CENTERS								0	
*** 12 NONCENTER								865,630	
*** 12 TOTAL								865,630	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
LOUISIANA									
BATON ROUGE	LOUISIANA STATE UNIV A&M COL BATON ROUGE								
CHANG, SIMON H / BIOCHEMISTRY	ROLE OF TRANSFER RNA IN CELL DIFFERENTIATION / PC		01-01-82 12-31-82	1	21320	5	R01 GM 28481-02	40,401	82
DEUTSCH, WALTER A / BIOCHEMISTRY	ALKYLATION DAMAGE AND ITS REPAIR IN DROSOPHILA / BIO		02-01-82 01-31-83	1	21250	5	R01 GM 27358-02	44,074	82
GANDOUR, RICHARD D / CHEMISTRY	CHEMICAL MODELS OF ENZYMATIC CATALYSIS / BNP		04-01-82 03-31-83	1	11920	5	R01 GM 29128-02	56,645	82
NEWKOME, GEORGE R / CHEMISTRY	PYRIDINE HETEROMACROCYCLES: FUTURE BIOLOGICAL MODELS / BMT		07-01-82 06-30-83	0	11920	5	R01 GM 20985-09	33,822	82
NEWKOME, GEORGE R / CHEMISTRY	SYNTHETIC MACROCYCLES AS ENZYMATIC REDOX MIMICS / BMT		01-01-81 09-30-82	0	11920	5	R01 GM 24053-03	30,758	81
** 5 TOTAL								205,700	
NEW ORLEANS	LOUISIANA STATE UNIV MED CTR NEW ORLEANS								
DEININGER, PRESCOTT L / BIOCHEMISTRY	HUMAN INTERSPERSED REPEATED DNA SEQUENCES / BIO		09-01-81 02-28-83	2	21600	1	R01 GM 29848-01	89,220	81
ELSTON, ROBERT C / BIOMETRY	GENETIC ANALYSIS OF MULTIFACTORIAL TRAITS / GEN		12-01-81 11-30-82	1	21400	5	R01 GM 28356-03	102,527	82
SPITZER, JUDY A / PHYSIOLOGY	ALTERED CA2+ HOMEOSTASIS & METABOLIC FUNCTIONS IN SEPSIS / SAT		01-01-82 12-31-82	4	13420	1	R01 GM 30312-01	76,263	82
** 3 TOTAL								268,010	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
LOUISIANA										
NEW ORLEANS	TULANE UNIVERSITY OF LOUISIANA									
BYERS, LARRY D	LIGAND INDUCED CHANGES IN MULTI-SUBUNIT ENZYMES									
CHEMISTRY	BIO		01-01-81 11-30-82	0	22400	5	R01 GM	24765-03	36,504	81
EHRLICH, MELANIE	MUTAGENESIS AT 5-METHYLCYTOSINE RESIDUES IN DNA									
BIOCHEMISTRY	BIO		09-01-81 08-31-83	0	21250	5	R01 GM	26986-03	46,947	81
HAMILTON, ANDREW E	SIGNIFICANCE OF CENTRIC FUSION IN LEMUR EVOLUTION									
BIOLOGY	MGN		07-01-82 06-30-83	0	21800	5	R01 GM	27965-03	60,999	82
HAMORI, EUGENE	COMPUTER-BASED REPRESENTATION OF LONG DNA SEQUENCES									
BIOCHEMISTRY	BBCA		04-01-81 03-31-83	0	21100	5	R01 GM	20008-07	27,189	81
** 4 TOTAL									171,639	
*** 0 *CENTERS									0	
*** 12 NONCENTER									645,349	
*** 12 TOTAL									645,349	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MAINE									
BAR HARBOR	JACKSON LABORATORY								
BAILEY, DONALD W	GENETIC STABILITY OF MOUSE ZYGOTES IN FROZEN STORAGE								
NONE	MGN		04-01-82 03-31-83	3	21700	5	R01 GM 22878-07	129,099	82
CHEN, HARRY W	CHOLESTEROL IN MEMBRANE FUNCTION AND CELL TRANSFORMATION								
NONE	MBY		04-01-82 03-31-83	1	22300	5	R01 GM 22900-07	130,968	82
COLLINS, ROBERT L	LATERALIZATION OF FUNCTION: BEHAVIOR GENETIC ANALYSIS								
NONE	MGN		08-01-82 07-31-83	2	13700	2	R01 GM 23618-06	128,508	82
DAVISSON, MURIEL T	ROBERTSONIAN CHROMOSOMES OF THE MOUSE								
NONE	MGN		05-01-82 04-30-83	0	21480	5	R01 GM 27102-03	105,828	82
EGOROV, IGOR K	MUTATIONS OF CMAD LOCI IN MOUSE CHROMOSOME 17								
NONE	MGN		09-01-82 08-31-83	0	21750	5	R01 GM 28017-03	226,236	82
EICHER, EVA M	CYTOGENETICS OF THE MOUSE								
NONE	MGN		07-01-82 06-30-83	4	21600	2	R01 GM 20919-09	227,942	82
KANDUTSCH, ANDREW A	DOLICHOL SYNTHESIS IN DIFFERENTIATION AND MALIGNANCY								
NONE	CTY		09-01-82 08-31-83	0	22410	5	R01 GM 29241-03	76,183	82
RODERICK, THOMAS H	STUDY OF MAMMALIAN CHROMOSOMAL INVERSIONS								
NONE	MGN		09-01-82 08-31-83	4	21480	2	R01 GM 19656-11	91,657	82
TAYLOR, BENJAMIN A	GENETIC ANALYSIS OF COMPLEX INFIRMITIES								
NONE	MGN		07-01-82 06-30-83	4	21480	2	R01 GM 18684-11	164,907	82
** 9 TOTAL								1,281,328	
ORONO	UNIVERSITY OF MAINE AT ORONO								
BLAKE, RICHARD D	STRUCTURE AND INTERACTIONS OF DNA								
BIOCHEMISTRY	BBCA		07-01-82 06-30-83	0	21100	5	R01 GM 22827-06	46,239	82
MOUNTCASTLE, DONALD B	TRANSMEMBRANE SIGNALING FOLLOWING RECEPTOR BINDING								
PHYSICS	BBCB		07-01-82 06-30-83	0	22300	5	R01 GM 28338-03	57,465	82
** 2 TOTAL								103,704	
*** 0 *CENTERS								0	
*** 11 NONCENTER								1,385,032	
*** 11 TOTAL								1,385,032	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MARYLAND									
BALTIMORE	CARNEGIE INSTITUTION OF WASHINGTON D C								
BROWN, DONALD D	THE DUAL 5S RNA GENE SYSTEM IN XENOPUS								
EMBRYOLOGY	GEN		09-01-82 08-31-83	2	21750	5	R01 GM 22395-08	192,296	82
PAGANO, RICHARD E	CELL SURFACE LIPIDS: ORGANIZATION; DYNAMICS; METABOLISM								
EMBRYOLOGY	MBY		03-01-82 02-28-83	1	22300	5	R01 GM 22942-07	105,471	82
RUBIN, GERALD M	CONTROL OF GENE EXPRESSION IN ANIMAL CELLS								
EMBRYOLOGY	CTY		09-01-82 08-31-83	1	21780	5	R01 GM 29054-03	130,584	82
SPRADLING, ALLAN C	NORMAL AND MUTANT CHORION GENES OF DROSOPHILA								
EMBRYOLOGY	GEN		04-01-82 03-31-83	0	21700	5	R01 GM 27875-03	91,283	82
WARD, SAMUEL	GENETIC SPECIFICATION OF CELL MORPHOLOGY								
EMBRYOLOGY	CBY		09-15-82 08-31-83	4	22200	2	R01 GM 25243-05	95,468	82
** 5 TOTAL								615,102	
BALTIMORE	JOHNS HOPKINS UNIVERSITY								
ACKERS, GARY K	REGULATORY INTERACTIONS IN PROTEIN/NUCLEIC ACID SYSTEMS								
BIOLOGY	BBCA		09-01-82 08-31-83	4	22500	2	R01 GM 24486-06	224,757	82
AEBI, UELI	STRUCTURAL STUDIES OF RNA POLYMERASE FROM E. COLI								
CELL BIOLOGY AND ANATOMY	MBY		04-01-82 03-31-83	0	21310	5	R01 GM 27765-03	82,513	82
AMZEL, LEON M	3-DIMENSIONAL STRUCTURE OF PROTON TRANSLOCATING ATPASES								
BIOPHYSICS	BBCB		04-01-82 03-31-83	3	22550	2	R01 GM 25432-04	116,975	82
AUGUST, J THOMAS	PURIFICATION OF CELL SURFACE DIFFERENTIATION ANTIGENS								
PHARMACOL & EXPER THERAPEUTICS	CBY		07-01-82 06-30-83	4	22300	1	R01 GM 31168-01	183,000	82
BEER, MICHAEL	ELECTRON MICROSCOPIC STUDIES OF COLLAGEN								
BIOPHYSICS	MBY		04-01-82 03-31-83	0	12930	5	R01 GM 27758-03	65,912	82
BEER, MICHAEL	ELECTRON MICROSCOPIC TECHNIQUES FOR MEMBRANE STRUCTURE								
BIOPHYSICS	BBCB		01-01-82 12-31-82	1	12930	5	R01 GM 24237-05	84,094	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
MARYLAND									
BALTIMORE	JOHNS HOPKINS UNIVERSITY								
BENBOW, ROBERT M	MOLECULAR MECHANISMS OF DNA REPLICATION IN XENOPUS LAEVI								
BIOLOGY	CTY		08-01-82 07-31-83	3	21200	5 R01 GM	29490-02	117,879	82
BENBOW, ROBERT M	DNA RECOMBINASE FROM OVARIES OF THE FROG, XENOPUS LAEVIS								
BIOLOGY	MBY		07-01-82 06-30-83	2	21200	1 R01 GM	31247-01	43,199	82
BESSMAN, MAURICE J	ENZYMATIC SYNTHESIS OF NUCLEOTIDES AND DNA								
BIOLOGY	PC		12-01-81 11-30-82	4	21200	2 R01 GM	18649-24	115,726	82
BLANCK, THOMAS J J	ANESTHETIC DEPRESSION OF THE MYOCARDIUM								
ANESTHESIOLOGY	SAT		05-01-82 04-30-83	3	13200	5 R01 GM	30799-02	58,632	82
BRAND, LUDWIG	FLUORESCENCE PROBES IN STUDIES OF PROTEINS AND MEMBRANES								
BIOLOGY	BBCA		09-01-82 08-31-83	4	22300	2 R01 GM	11632-20	171,380	82
CLEVELAND, DON W	MICROTUBULE REGULATION: CONTROL OF EXPRESSION OF TUBULI								
PHYSIOLOGICAL CHEMISTRY	MBY		07-01-82 06-30-83	1	22250	5 R01 GM	29513-02	96,125	82
COLLINS, KIM D	DIHYDROOROTASE: CATALYSIS AND INHIBITION								
BIOCHEMISTRY	BIO		02-01-82 01-31-83	1	22400	5 R01 GM	28773-02	71,962	82
DEVREOTES, PETER N	CAMP SIGNALS MEDIATING AGGREGATION IN DICTYOSTELIUM								
PHYSIOLOGICAL CHEMISTRY	CBY		07-01-82 06-30-83	0	22200	5 R01 GM	28007-03	65,906	82
DOTTIN, ROBERT P	DEVELOPMENTAL CONTROL OF DICTYOSTELIUM GENE EXPRESSION								
BIOLOGY	MBY		12-01-81 11-30-82	0	21700	5 R01 GM	27310-03	95,234	82
DRAPER, DAVID E	RIBOSOMAL RNA STRUCTURE AND INTERACTIONS								
CHEMISTRY	BBCA		04-01-82 03-31-83	1	21320	5 R01 GM	29048-02	48,199	82
ENGLUND, PAUL T	STRUCTURE AND SYNTHESIS OF DNA								
PHYSIOLOGICAL CHEMISTRY	BIO		01-01-82 12-31-82	2	21200	5 R01 GM	27608-14	162,126	82
FENSELAU, CATHERINE C	APPLICATIONS OF MASS SPECTROMETRY IN PHARMACOLOGY								
PHARMACOL & EXPER THERAPEUTICS	SSS		07-01-82 06-30-83	0	11940	5 R01 GM	21248-08	115,400	82
FYRBERG, ERIC A	ANALYSIS OF GENE EXPRESSION DURING DROSOPHILA MYOGENESIS								
BIOLOGY	GEN		07-01-82 06-30-83	1	21700	5 R01 GM	29357-02	61,398	82
GAFFNEY, BETTY J	SPIN LABELING RECEPTORS ON NORMAL AND MALIGNANT CELLS								
CHEMISTRY	BBCA		05-01-82 04-30-83	0	22300	5 R01 GM	28070-09	88,170	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MARYLAND												
BALTIMORE	JOHNS HOPKINS UNIVERSITY											
GERACE, LARRY R CELL BIOLOGY AND ANATOMY	STRUCTURE AND FUNCTIONS OF THE NUCLEAR ENVELOPE	CBY		12-01-81	11-30-82	1	22300	5	R01 GM	28521-02	78,308	82
GROSSMAN, LAWRENCE BIOCHEMISTRY	ENZYMATIC EXCISION AND REPAIR MECHANISM	PC		09-01-82	08-31-83	1	21200	5	R01 GM	22846-08	103,646	82
GROSSMAN, LAWRENCE BIOCHEMISTRY	DNA REPAIR GENE EXPRESSION IN MAMMALIAN CELLS	BIO	1	07-01-82	06-30-83	4	21400	1	R01 GM	31110-01	134,363	82
HUBBARD, ANN L CELL BIOLOGY AND ANATOMY	RECEPTOR-MEDIATED ENDOCYTOSIS IN HEPATOCYTES	CBY		04-01-82	03-31-83	3	22300	5	R01 GM	29133-02	92,382	82
HUBBARD, ANN L CELL BIOLOGY AND ANATOMY	BIOLOGY OF DIFFERENTIATED SURFACE DOMAINS IN HEPATOCYTES	CP		09-01-82	08-31-83	2	22300	5	R01 GM	29185-03	143,745	82
LEHNINGER, ALBERT L PHYSIOLOGICAL CHEMISTRY	ENERGY-COUPLING PROCESSES IN MITOCHONDRIA	BIO		03-01-82	02-28-83	1	22450	5	R01 GM	05919-24	262,993	82
LENNARZ, WILLIAM J PHYSIOLOGICAL CHEMISTRY	ENZYMATIC CONVERSION OF PROTEINS TO GLYCOPROTEINS	PBC		04-01-82	03-31-83	2	22410	2	R01 GM	24821-04	105,428	82
LENNARZ, WILLIAM J PHYSIOLOGICAL CHEMISTRY	LIPID CARRIERS IN MEMBRANE GLYCOPROTEIN SYNTHESIS	PC		06-01-82	05-31-83	2	22410	5	R01 GM	21451-08	144,266	82
LIETMAN, PAUL S MEDICINE	ANTIBIOTIC TOXICITY: BIOCHEMICAL & CLINICAL PHARMACOLOGY	SSS		07-01-81	06-30-83	0	11890	5	R01 GM	26902-03	165,383	81
LIN, SHIN BIOPHYSICS	CYTOCHALASINS, ACTIN FILAMENTS, AND CELL MOTILITY	CTY		05-01-82	04-30-83	4	22250	2	R01 GM	22289-08	159,878	82
LIU, LEROY F PHYSIOLOGICAL CHEMISTRY	FUNCTIONAL AND MECHANISTIC STUDIES OF DNA TOPOISOMERASES	MBC		04-01-82	03-31-83	0	21200	5	R01 GM	27731-03	66,978	82
MALONEY, PETER C PHYSIOLOGY	ION GRADIENTS AND ENERGY COUPLING IN BACTERIA	PB		08-01-82	07-31-83	0	22450	5	R01 GM	24195-06	110,276	82
MOUDRIANAKIS, EVANGELOS N BIOLOGY	ENZYMOLOGY OF MITOCHONDRIAL ATP SYNTHESIS	BIO		05-01-82	04-30-83	1	22450	5	R01 GM	25683-04	86,565	82
MURPHY, DOUGLAS B CELL BIOLOGY AND ANATOMY	THE MOLECULAR MECHANISM OF INTRACELLULAR MOTILITY	MBY		08-01-82	07-31-83	2	22250	5	R01 GM	26155-05	92,144	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MARYLAND									
BALTIMORE	JOHNS HOPKINS UNIVERSITY								
MURPHY, EDMOND A	THEORETICAL ASPECTS OF CLINICAL GENETICS								
MEDICINE	MGN		01-01-82 12-31-82	1	21400	5	R01 GM 24736-05	114,835	82
NICKON, ALEX	DOMED FUNCTIONAL GROUPS								
CHEMISTRY	MCHA		09-01-81 08-31-83	0	11910	5	R01 GM 06304-19	102,524	81
OESCHGER, MAX P	TS NONSENSE SUPPRESSORS OF E COLI K-12								
BIOLOGY	MBC		07-01-82 06-30-83	0	21750	5	R01 GM 29851-02	93,870	82
OESCHGER, MAX P	TS NONSENSE SUPPRESSORS OF E. COLI K-12								
BIOLOGY	MG		07-01-82 06-30-83	0	21750	3	R01 GM 29851-02S1	34,127	82
PIGIET, VINCENT P, JR	BASIS FOR REGULATION OF RIBONUCLEOTIDE REDUCTASE								
BIOLOGY	PBC		07-01-82 06-30-83	1	22400	5	R01 GM 20122-10	78,854	82
POLLARD, THOMAS D	MOLECULAR MECHANISM OF CELLULAR MOTILITY								
CELL BIOLOGY AND ANATOMY	MBY		09-01-82 08-31-83	4	22250	2	R01 GM 26338-05	150,618	82
POLLARD, THOMAS D	ACTOMYOSIN-MICROTUBULE INTERACTIONS IN CELL DIVISION								
CELL BIOLOGY AND ANATOMY	CBY		07-01-82 06-30-83	0	22250	5	R01 GM 26132-05	128,816	82
POSNER, GARY H	ASYMMETRIC SYNTHESIS OF PHYSIOLOGICALLY ACTIVE COMPOUNDS								
CHEMISTRY	MCHA		09-01-82 08-31-83	2	11940	1	R01 GM 30052-01A1	77,080	82
SCOCCA, JOHN J	DNA INTERACTIONS IN BACTERIAL TRANSFORMATION								
BIOCHEMISTRY	MBC		04-01-82 03-31-83	0	21200	5	R01 GM 21890-06	103,019	82
SCOTT, ALAN F	GLOBIN GENE REGULATION IN NON-HUMAN PRIMATES								
MEDICINE	MGN		04-01-82 03-31-83	1	21480	5	R01 GM 28931-02	111,454	82
SOLLNER-WEBB, BARBARA T	TRANSCRIPTION OF XENOPUS RIBOSOMAL DNA								
PHYSIOLOGICAL CHEMISTRY	MBY		04-01-82 03-31-83	0	21310	5	R01 GM 27720-03	63,552	82
TORGERSON, WARREN S	PAIN AND PAIN PATIENTS: SPECIFICATION AND CLASSIFICATION								
PSYCHOLOGY	SSS		04-01-82 03-31-83	2	13700	1	R01 GM 29772-01A1	93,003	82
TS'O, PAUL O	NUCLEIC ACID CHEMISTRY AND ITS BIOMEDICAL APPLICATION								
BIOPHYSICS	SSS		07-01-82 06-30-83	0	21100	5	R01 GM 16066-15	191,386	82
TSONG, TIAN Y	DYNAMICS OF SYNTHETIC AND BIOLOGICAL MEMBRANE								
PHYSIOLOGICAL CHEMISTRY	BBCB		05-01-82 04-30-83	3	22300	5	R01 GM 28795-08	107,081	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MARYLAND									
BALTIMORE	JOHNS HOPKINS UNIVERSITY								
WANG, SHIH Y ENVIRONMENTAL HEALTH SCIENCES	BBCA		CHEMICAL ANALYSIS OF NON-DIMERIC UV DAMAGE IN DNA 04-01-82 03-31-83	2	21250	5	R01 GM 24238-05	74,787	82
WHITE, EMIL H CHEMISTRY	BNP		ENZYME ACTIVE SITE MAPPING UTILIZING CARBONIUM IONS 12-01-81 11-30-82	2	22400	2	R01 GM 21450-07	112,958	82
WINCHURCH, RICHARD A SURGERY	IMS		TRAUMA-INDUCED SUPPRESSION OF IMMUNITY 08-01-81 07-31-85	0	13410	5	R01 GM 26235-03	65,294	81
** 50 TOTAL								5,518,200	
BALTIMORE	UNIVERSITY OF MARYLAND AT BALTIMORE								
FRANK, LEONARD BIOLOGICAL CHEMISTRY	BIO		METABOLISM OF CERTAIN AMINO ACIDS 06-01-82 05-31-83	0	22400	5	R01 GM 11105-20	135,323	82
GLASER, EDMUND M PHYSIOLOGY	SB		INTERACTIVE CAMERA LUCIDA COMPUTER-MICROSCOPE 01-01-81 12-31-82	0	12990	5	R01 GM 27165-02	78,325	81
GOKEL, GEORGE W BIOLOGICAL CHEMISTRY	MCHA		CA++ SELECTIVE PEPTIDES FOR METABOLIC CONTROL 12-01-81 11-30-82	0	22300	5	R01 GM 29706-02	61,644	82
KIRTLEY, MARY E BIOLOGICAL CHEMISTRY	BIO		STUDY OF GLYCOLYTIC ENZYMES BOUND TO MEMBRANES 08-01-81 11-30-82	0	22300	5	R01 GM 19394-09	85,957	81
LAKOWICZ, JOSEPH R BIOLOGICAL CHEMISTRY	BBCA		EFFECTS OF HYDROSTATIC PRESSURE ON CELL MEMBRANES 02-01-82 01-31-83	1	22300	5	R01 GM 29318-02	36,632	82
ROSEN, BARRY P BIOLOGICAL CHEMISTRY	BIO		BIOENERGETICS OF MICROBIAL MEMBRANE FUNCTIONS 12-01-81 06-30-83	0	22450	5	R01 GM 21648-08	77,865	82
WAECHTER, CHARLES J BIOLOGICAL CHEMISTRY	PC		DOLICHOL METABOLISM & MEMBRANE GLYCOPROTEIN BIOSYNTHESIS 06-01-82 05-31-83	3	22410	5	R01 GM 29833-08	122,784	82
** 7 TOTAL								598,530	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MARYLAND											
BETHESDA			AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS								
MEISTER, ALTON BIOCHEMISTRY			TWELFTH INTERNATIONAL CONGRESS OF BIOCHEMISTRY								
	NSS		06-01-82	12-31-82	0	22500	1	R13 GM	00041-01	2,000	82
** 1 TOTAL										2,000	
BETHESDA			FEDERATION OF AMER SOC FOR EXPER BIO								
DAVIDSON, RICHARD L CENTER FOR GENETICS			FASEB CONFERENCE ON SOMATIC CELL GENETICS								
	GEN		06-01-82	05-31-83	0	21480	1	R13 GM	30430-01	2,000	82
** 1 TOTAL										2,000	
BETHESDA			U.S. UNIFORMED SERVICES UNIV OF HLTH SCI								
BEELER, TROY J BIOCHEMISTRY			CA 2+ FLUXES AND POTENTIAL OF SARCOPLASMIC RETICULUM								
	PB		04-01-82	03-31-83	1	22300	5	R01 GM	29300-02	13,700	82
FORMAN, DAVID S ANATOMY			PERMEABILIZED CELL MODEL OF SALTATORY ORGANELLE MOVEMENT								
	CBY		05-01-82	04-30-83	2	22250	1	R01 GM	30450-01	57,855	82
MULDOON, SHEILA M PHYSIOLOGY			GENERAL ANESTHETICS AND VASCULAR NEUROEFFECTOR SYSTEMS								
	SAT		03-01-82	02-28-83	0	13200	5	R01 GM	25926-04	29,126	82
SCHOENBERG, DANIEL R PHARMACOLOGY			ESTROGEN ACTION IN XENOPUS LIVER								
	BCE		07-01-82	06-30-83	2	21750	1	R01 GM	30270-01A1	42,038	82
WU, HENRY C MICROBIOLOGY			MAMMALIAN CELL SURFACE GENETICS AND BIOCHEMISTRY								
	GEN		12-01-81	11-30-82	0	22300	5	R01 GM	28810-02	69,732	82
WU, HENRY C MICROBIOLOGY			BIOCHEMISTRY OF CELL DIVISION IN BACTERIA								
	MBC		08-01-82	07-31-83	2	22300	5	R01 GM	28811-03	73,703	82
** 6 TOTAL										286,154	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MARYLAND										
CATONSVILLE			UNIVERSITY OF MARYLAND BALT CO CAMPUS							
HAYS, JOHN B CHEMISTRY			DNA STRUCTURES WHICH STIMULATE GENETIC RECOMBINATION							
	MG		09-01-82 08-31-83	4	21200	2	R01 GM	22586-07	149,796	82
KUNG, SHAIN-DOW BIOLOGICAL SCIENCES			RIBULASE-1,5 BISPHOSPHATE CARBOXYLASE IN VIVO							
	BIO		04-01-82 03-31-83	0	22400	5	R01 GM	27746-03	56,430	82
TAKEDA, YOSHINORI CHEMISTRY			STUDY ON CRO REPRESSOR--OPERATOR INTERACTION							
	MG		07-01-82 06-30-83	2	21100	1	R01 GM	30894-01	68,548	82
TAKEDA, YOSHINORI CHEMISTRY			DEVELOPMENTAL SWITCH IN PHAGE LAMBDA							
	MG		07-01-82 06-30-83	0	21750	5	R01 GM	28138-03	80,638	82
WOLF, RICHARD E, JR BIOLOGICAL SCIENCES			GROWTH RATE-DEPENDENT CONTROL OF GENE EXPRESSION							
	MG		04-01-82 03-31-83	1	21750	5	R01 GM	27113-02	88,802	82
** 5 TOTAL									444,214	
COLLEGE PARK			UNIVERSITY OF MARYLAND COLLEGE PK CAMPUS							
ADES, IBRAHIM Z ZOOLOGY			BIOGENESIS OF CHICK LIVER AMINOLEVULINATE SYNTHETASE							
	BIO		08-01-82 03-31-83	0	22400	7	R01 GM	31672-01	36,928	82
ARMSTRONG, RICHARD N CHEMISTRY			MECHANISM OF ACTION OF GULUTATHIONE S-TRANSFERASE							
	PB		07-01-82 06-30-83	2	22400	1	R01 GM	30910-01	87,698	82
COLOMBINI, MARCO ZOOLOGY			PROBING THE MECHANISM OF A VOLTAGE DEPENDENT CHANNEL							
	PHY		01-01-82 12-31-82	1	22300	5	R01 GM	28450-02	60,389	82
DUNAWAY-MARIANO, DEBRA CHEMISTRY			INVESTIGATIONS OF PHOSPHORYL TRANSFER REACTIONS							
	PB		02-01-82 01-31-83	1	11920	5	R01 GM	28688-02	74,994	82
GOKEL, GEORGE W CHEMISTRY			SYNTHETIC CALCIUM REGULATORS FOR MUSCLE TISSUE							
	MCHA		06-01-82 05-31-83	0	11920	5	R01 GM	29150-02	52,269	82
MARIANO, PATRICK S CHEMISTRY			MOLECULAR REARRANGEMENTS IN NATURAL PRODUCT SYNTHESIS							
	MCHA		04-01-82 03-31-83	1	11910	5	R01 GM	29016-02	54,164	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MARYLAND									
COLLEGE PARK	UNIVERSITY OF MARYLAND COLLEGE PK CAMPUS								
MARIANO, PATRICK S CHEMISTRY	MCHA		SYNTHESIS OF N-ALLYLIMINIUM SALT-PHOTOCYCLIZATIONS 01-01-82 12-31-82	0	11940	5	R01 GM 27251-03	65,397	82
PIERCE, SIDNEY K ZOOLOGY	PHY		CELLULAR WATER BALANCE: THE INVERTEBRATE MECHANISM 04-01-82 03-31-83	0	22300	5	R01 GM 23731-06	67,210	82
** 8 TOTAL								499,049	
ROCKVILLE	AMERICAN TYPE CULTURE COLLECTION								
NIERMAN, WILLIAM C BACTERIOLOGY	GEN		TRANSCRIPTION OF DROSOPHILA HEAT SHOCK AND ACTIN GENES 04-01-82 03-31-83	2	21750	1	R01 GM 29384-01	55,707	82
** 1 TOTAL								55,707	
*** 0 *CENTERS								0	
*** 84 NONCENTER								8,020,956	
*** 84 TOTAL								8,020,956	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS								
AMHERST	AMHERST COLLEGE							
DOOLEY, DAVID M CHEMISTRY	AMINE OXIDASES:ACTIVE SITE STRUCTURE AND ROLE OF CU(II) PB	07-01-82 06-30-83	0	22400	5	R01 GM 27659-03	49,808	82
GIBBS, JULIAN H CHEMISTRY	STATISTICAL MECHANICS OF BIOLOGICAL MACROMOLECULES BBCB	09-01-82 08-31-83	0	22600	5	R01 GM 27951-04	66,704	82
** 2 TOTAL							116,512	
AMHERST	UNIVERSITY OF MASSACHUSETTS AMHERST							
BRANDTS, JOHN F CHEMISTRY	FREE ENERGY OF FOLDING OF GLOBULAR PROTEINS BBCB	07-01-82 06-30-83	0	22500	5	R01 GM 11071-20	86,898	82
CARPINO, LOUIS A CHEMISTRY	NEW AMINO-PROTECTING GROUPS MCHA	09-01-82 08-31-83	4	11440	2	R01 GM 09706-17	118,098	82
FOURNIER, MAURILLE J, JR BIOCHEMISTRY	BIOSYNTHESIS OF TRANSFER RIBONUCLEIC ACID PC	06-01-82 05-31-83	0	21320	5	R01 GM 19351-11	82,311	82
HEPLER, PETER K BOTANY	ROLE OF CALCIUM AND MEMBRANES IN MITOSIS CBY	09-01-82 08-31-83	2	22250	5	R01 GM 25120-06	97,230	82
HOLMES, ROBERT R CHEMISTRY	PHOSPHATE MODEL FOR NUCLEASE ACTION BMT	01-01-82 12-31-82	1	11920	5	R01 GM 21466-08	64,432	82
JACOBSON, BRUCE S BIOCHEMISTRY	PLASMA MEMBRANES INVERTED ON BEADS--ACTIN BINDING CP	08-01-82 07-31-83	2	22250	2	R01 GM 25461-05	92,930	82
JACOBSON, BRUCE S BIOCHEMISTRY	PLASMA-MEMBRANE REGIONS AS CELLS GROW IN MONOLAYERS CP	04-01-82 03-31-83	1	22300	5	R01 GM 29127-02	51,768	82
LESSIE, THOMAS G MICROBIOLOGY	BIOCHEMICAL VERSATILITY OF PSEUDOMONAS CEPACIA MBC	04-01-82 03-31-83	2	21750	5	R01 GM 21198-14	74,092	82
LEVIN, BRUCE R ZOOLOGY	PROTEIN VARIATION AND SELECTION MECHANISMS IN E. COLI MBC	12-01-81 11-30-82	1	21800	5	R01 GM 19848-09	91,363	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
AMHERST	UNIVERSITY OF MASSACHUSETTS AMHERST								
WESTHEAD, EDWARD W, JR / BIOCHEMISTRY	DIVALENT CATIONS IN ENOLASE AND OTHER BIOLOGICAL SYSTEMS / BIO		06-01-82 05-31-83	0	22400	5	R01 GM 14945-16	87,906	82
ZIMMERMANN, ROBERT A / BIOCHEMISTRY	PHOTOCHEMICAL PROBES OF RIBOSOME ARCHITECTURE / BBCA		04-01-82 03-31-83	3	21320	2	R01 GM 22807-07	110,202	82
** 11 TOTAL								957,230	
BOSTON	BETH ISRAEL HOSPITAL								
DEMLING, ROBERT H / SURGERY	PATHOPHYSIOLOGY OF LUNGS AFTER THERMAL INJURY / SAT		07-01-82 06-30-83	1	13410	7	R01 GM 31662-01	152,350	82
** 1 TOTAL								152,350	
BOSTON	BOSTON BIOMEDICAL RESEARCH INSTITUTE								
HONG, JEN-SHIANG / CELL PHYSIOLOGY	BIOCHEMISTRY AND GENETICS OF MEMBRANE FUNCTIONS / MBC		12-01-81 11-30-82	4	22300	1	R01 GM 29843-01	140,289	82
JOSHI, SAROJ / CELL PHYSIOLOGY	ATPASE COMPLEX: PURIFICATION AND TOPOLOGY / PB		04-01-82 03-31-83	1	22450	5	R01 GM 26420-02	81,112	82
SANADI, D RAO / CELL PHYSIOLOGY	OXIDATIVE PHOSPHORYLATION IN HEART MITOCHONDRIA / PB		07-01-82 06-30-83	2	22450	5	R01 GM 13641-16	171,341	82
SANADI, D RAO / CELL PHYSIOLOGY	HYDROGEN ION TRANSLOCATION--VESICLES & PLANAR BILAYERS / BIO		07-01-81 12-31-82	0	22450	5	R01 GM 26764-03	76,588	81
SARKAR, NILIMA / METABOLIC REGULATION	INVOLVEMENT OF RNA IN DNA SYNTHESIS / BIO		04-01-82 03-31-83	2	21200	2	R01 GM 25022-04	77,770	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS								
BOSTON	BOSTON BIOMEDICAL RESEARCH INSTITUTE							
SARKAR, NILIMA METABOLIC REGULATION	FUNCTION OF POLYADENYLATE SEQUENCES IN BACTERIAL RNA MBC	04-01-81 12-31-82	0	21320	5	R01 GM 26517-03	62,818	81
** 6 TOTAL							609,918	
BOSTON	BOSTON UNIVERSITY							
FARMER, STEPHEN R BIOCHEMISTRY	CELL CONFIGURATION & SYNTHESIS OF TUBULIN & ACTIN MBY	07-01-82 06-30-83	1	22250	5	R01 GM 29630-02	92,047	82
GUTERMAN, SONIA K BIOLOGY	RHO PROTEIN INTERACTION WITH RNA AND RNA POLYMERASE MBC	04-01-82 03-31-83	0	21310	5	R01 GM 24461-06	77,328	82
JACOBSON, GARY R BIOLOGY	THE STRUCTURE OF THE D-MANNITOL PERMEASE OF E COLI MBC	07-01-82 06-30-83	0	22400	5	R01 GM 28226-03	61,080	82
MC INTOSH, TRACY K SURGERY	ENDORPHIN AND CATECHOLAMINE RESPONSE TO SHOCK AND TRAUMA SAT	07-01-82 06-30-83	2	13410	1	R01 GM 31078-01	81,777	82
PETERSON, SCOTT W BIOLOGY	ISOLATION OF THE ERYTHROCYTE MEMBRANE CA2+-ATPASE CBY	08-01-82 07-31-83	0	22300	5	R01 GM 28832-03	61,087	82
SCHMID, KARL BIOCHEMISTRY	CHEMISTRY OF HUMAN PROTEINS AND GLYCOPROTEINS PC	12-01-81 11-30-82	0	22410	5	R01 GM 10374-20	153,176	82
TAMM, SIDNEY L BIOLOGY	CELL MOTILITY, MEMBRANE FLUIDITY AND MECHANOTRANSDUCTION CBY	05-01-82 04-30-83	2	22250	5	R01 GM 27903-03	106,468	82
TEETER, MARTHA M CHEMISTRY	STRUCTURE/FUNCTION IN HEMOLYTIC TOXINS BBCB	07-01-82 06-30-83	2	22550	1	R01 GM 30165-01A1	86,716	82
** 8 TOTAL							719,679	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
BOSTON	CHILDREN'S HOSPITAL MEDICAL CENTER								
LATT, SAMUEL A MEDICINE	PROTEIN-DNA INTERACTIONS IN HUMAN CHROMOSOMES GEN		02-01-82 01-31-83	1	21600	5	R01 GM 21121-09	200,773	82
MITCHELL, ALLEN A MEDICINE	INTENSIVE DRUG SURVEILLANCE IN HOSPITALIZED CHILDREN EDC		05-01-82 04-30-83	0	11780	5	R01 GM 24781-05	448,855	82
** 2 TOTAL								649,628	
BOSTON	HARVARD UNIVERSITY								
AULD, DAVID S CTR/BIOCHEM/BIOPHYS SCIS & MED	LOW TEMPERATURE ENZYME DYNAMICS BBCA		09-01-82 08-31-83	1	22400	5	R01 GM 24967-03	48,414	82
BECKWITH, JONATHAN R MICROBIOL & MOLECULAR GENETICS	REGULATION OF RBS & OTHER CAMP-DEPENDENT GENES IN E COLI MG		09-01-82 08-31-83	4	21750	2	R01 GM 13017-18	119,189	82
BEGG, DAVID A ANATOMY	CELLULAR AND MOLECULAR BASIS OF CYTOKINESIS CBY		07-01-82 06-30-83	0	22250	5	R01 GM 28307-03	102,540	82
BENDER, WELCOME W BIOLOGICAL CHEMISTRY	MOLECULAR GENETICS OF TWO DROSOPHILA LOCI GEN		12-01-81 11-30-82	1	21700	5	R01 GM 28630-02	100,925	82
CAIRNS, JOHN MICROBIOLOGY	SYSTEMS THAT PROJECT AGAINST MUTAGENESIS CPA		09-01-82 08-31-83	1	21250	5	R01 GM 28910-02	57,489	82
DAVIS, BERNARD D MICROBIOL & MOLECULAR GENETICS	MEMBRANE-ASSOCIATED RIBOSOMES AND PROTEIN SECRETION MBC		06-01-82 05-31-83	1	21320	5	R01 GM 16835-14	167,824	82
DAWIDOWICZ, ELIEZAR A BIOPHYSICAL LABORATORY	PHYSICAL STUDY OF LIPID MOTION IN RED CELL MEMBRANES BBCB		04-01-82 03-31-83	1	22300	5	R01 GM 22175-07	128,825	82
FRAENKEL, DAN G MICROBIOL & MOLECULAR GENETICS	ENZYMES AND PATHWAYS IN GLYCOLYSIS MUTANTS MBC		08-01-82 07-31-83	0	22400	5	R01 GM 21098-09	127,632	82
GOLDBERG, IRVING H PHARMACOLOGY	MOLECULAR PHARMACOLOGY OF ANTICANCER DRUGS PC		01-01-82 12-31-82	4	11770	2	R01 GM 12573-18	294,984	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS										
BOSTON	HARVARD UNIVERSITY									
GOLDSTEIN, RICHARD / MICROBIOL & MOLECULAR GENETICS	MECHANISM OF THE SWITCH BETWEEN TWO CAPSID SIZES	VR		12-01-81 11-30-82	0	21320	5	R01 GM 27143-03	51,108	82
GOODENOUGH, DANIEL A / ANATOMY	MOLECULAR BIOLOGY OF INTERCELLULAR COMMUNICATIONS	BBCA		01-01-82 12-31-82	0	22300	5	R01 GM 18974-11	90,062	82
GOODENOUGH, DANIEL A / ANATOMY	MOLECULAR BIOLOGY OF ZONULAE OCCLUDENTES	CTY		04-01-82 03-31-83	1	22300	5	R01 GM 28932-02	113,250	82
HERZFELD, JUDITH / BIOPHYSICAL LABORATORY	NMR STUDIES OF BIOLOGICAL MEMBRANES	BBCB		04-01-82 03-31-83	3	22300	2	R01 GM 23316-06	98,624	82
HIRSH, JAY / BIOLOGICAL CHEMISTRY	REGULATION OF THE DOPA DECARBOXYLASE GENE	MBY		01-01-82 12-31-82	0	21750	5	R01 GM 27318-03	89,374	82
JONES, ALUN G / RADIOLOGY	CHEMISTRY OF TECHNETIUM RELATED TO NUCLEAR MEDICINE	BMT		02-01-82 01-31-83	0	11920	5	R01 GM 23270-06	186,436	82
KENNEDY, EUGENE P / BIOLOGICAL CHEMISTRY	BIOGENESIS AND FUNCTION OF MEMBRANES	MBC		05-01-82 04-30-83	2	22300	5	R01 GM 22057-08	161,803	82
KENNEDY, EUGENE P / BIOLOGICAL CHEMISTRY	METABOLISM AND FUNCTION OF COMPLEX LIPIDS	MBC		12-01-81 11-30-82	0	22400	5	R01 GM 19822-23	117,861	82
KITZ, RICHARD J / ANESTHESIA	ANAESTHESIOLOGY CENTER FOR RESEARCH AND TEACHING	PTR		01-01-82 12-31-82	1	13100	*5	P50 GM 15904-15	388,016	82
LAIRD, NAN M / BIOSTATISTICS	RANDOM EFFECTS MODELS FOR LONGITUDINAL STUDIES	SSS		09-01-82 08-31-83	1	12100	5	R01 GM 29745-02	83,107	82
LATORRE, RAMON / PHYSIOLOGY AND BIOPHYSICS	IONIC CHANNEL FORMATION MECHANISMS IN LIPID BILAYERS	PHY		04-01-82 03-31-83	1	22300	5	R01 GM 28992-02	71,651	82
LIN, EDMUND C / MICROBIOL & MOLECULAR GENETICS	GLYCEROL DISSIMILATION AND ITS REGULATION IN BACTERIA	MBC		05-01-82 04-30-83	2	22400	5	R01 GM 11983-19	171,587	82
LINCK, RICHARD W / ANATOMY	FLAGELLAR MICROTUBULES: MOLECULAR STRUCTURE-FUNCTION	MBY		01-01-82 12-31-82	1	22250	5	R01 GM 21527-08	151,161	82
REINHOLD, VERNON N / BIOLOGICAL CHEMISTRY	GLYCOCONJUGATE STRUCTURAL STUDIES/PROGRAM PROJECT	SSS		09-01-82 08-31-83	1	22410	5	P01 GM 26625-04	427,447	82

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS								
BOSTON		HARVARD UNIVERSITY						
STRUHL, KEVIN BIOLOGICAL CHEMISTRY	GEN	EXPRESSION AND REGULATION OF THE YEAST HIS3 GENE 03-01-82 02-28-83	2	21750	1	R01 GM 30186-01	118,184	82
SYVANEN, MICHAEL MICROBIOL & MOLECULAR GENETICS	MG	GENETIC ANALYSIS OF TRANSPOSABLE ELEMENTS 07-01-82 06-30-83	1	21780	5	R01 GM 28142-03	148,081	82
TAI, PHANG-CHENG MICROBIOL & MOLECULAR GENETICS	MBC	THE FUNCTIONS OF RIBOSOME RELEASE FACTOR 07-01-82 06-30-83	1	21320	5	R01 GM 22030-07	76,019	82
TAI, PHANG-CHENG MICROBIOL & MOLECULAR GENETICS	MBC	SELECTIVE ACTIONS OF ANTIBIOTICS ON RIBOSOMES 09-01-82 08-31-83	1	21320	5	R01 GM 28927-03	72,951	82
TOSCANO, WILLIAM A, JR PHYSIOLOGY	CTY	MECHANSISM OF CALCIUM STIMULATION OF ADENYLATE CYCLASE 04-01-82 03-31-83	1	22300	5	R01 GM 28897-02	126,312	82
TOSTESON, DANIEL C PHYSIOLOGY AND BIOPHYSICS	PHY	MEMBRANES IN HYPERTENSION AND OTHER SYNDROMES 07-01-82 06-30-83	0	22300	5	R01 GM 25686-05	153,053	82
TOSTESON, DANIEL C PHYSIOLOGY AND BIOPHYSICS	PHY	ION TRANSPORT ACROSS LIPID BILAYER MEMBRANES 07-01-82 06-30-83	2	22300	5	R01 GM 25277-05	140,876	82
VALLEE, BERT L BIOPHYSICAL LABORATORY	BMT	THE FUNCTION AND DETECTION OF ZINC IN CELL BIOLOGY 06-01-82 05-31-83	0	22200	5	R01 GM 24989-05	168,304	82
** 31 TOTAL							4,353,089	
BOSTON		MASSACHUSETTS GENERAL HOSPITAL						
BURKE, JOHN F SURGICAL SERVICE	SRC	BURN TRAUMA CENTER 12-01-81 11-30-82	3	13300	*5	P50 GM 21700-08	576,746	82
COOPER, JEFFREY B ANESTHESIA	SGYA	NEW APPROACHES TO ANESTHESIA MANAGEMENT 02-01-81 09-30-82	0	12500	5	R01 GM 22023-06	119,495	81
CROSBY, GREGORY J ANESTHESIA	SAT	SPINAL CORD AND BRAIN LOCAL METABOLISM DURING ANESTHESIA 05-01-82 04-30-83	2	13250	1	R23 GM 30502-01	46,209	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
BOSTON	MASSACHUSETTS GENERAL HOSPITAL								
EHRLICH, H PAUL / PATHOLOGY	THE CONTROL AND MODIFICATION OF SCAR FORMATION / SAT		04-01-82 03-31-83	2	13420	2	R01 GM 25561-04A1	69,409	82
EHRLICH, H PAUL / PATHOLOGY	ABNORMAL HEALING IN A MUTANT MOUSE MODEL / SAT		01-01-82 12-31-82	1	13420	5	R01 GM 28689-02	63,363	82
KOCHEVAR, IRENE E / DERMATOLOGY	ULTRAVIOLET LIGHT INDUCED PHENOMENA IN BIOMEMBRANES / GMA		08-01-82 07-31-83	0	13420	5	R01 GM 30755-02	103,590	82
** 6 TOTAL								978,812	
BOSTON	NEW ENGLAND DEACONESS HOSPITAL								
BLACKBURN, GEORGE L / NUTRITION/METABOLISM LAB	BRANCHED CHAIN AMINO ACID FEEDING DURING INJURY / SAT		08-01-82 07-31-83	3	13420	5	R01 GM 24206-05	143,900	82
** 1 TOTAL								143,900	
BOSTON	NORTHEASTERN UNIVERSITY								
KARGER, BARRY L / CHEMISTRY	STUDIES IN HIGH PERFORMANCE LIQUID CHROMATOGRAPHY / SSS		12-01-81 11-30-82	2	12820	2	R01 GM 15847-13	123,919	82
VOUROS, PAUL / DIV/BIOCHEMICAL-ORGANIC ANAL	MASS SPECTROMETRY OF BIOLOGICALLY SIGNIFICANT COMPOUNDS / BMT		04-01-81 03-31-83	0	11940	5	R01 GM 22787-06	76,322	81
** 2 TOTAL								200,241	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
BOSTON	PETER BENT BRIGHAM HOSPITAL								
MANNICK, JOHN A	IMMUNOLOGIC STUDIES OF PATIENTS AFTER TRAUMATIC INJURY								
SURGERY	SSS		02-01-82 01-31-83	4	13410	2	R01 GM 26016-04A1	168,234	82
STRICHARTZ, GARY R	DIFFERENTIAL ANESTHESIA OF NERVE FIBERS								
ANESTHESIA	SAT		02-01-82 01-31-83	2	13200	1	R01 GM 30160-01	159,803	82
WILMORE, DOUGLAS W	TRAUMA--REGULATORS & MODULATORS OF THE CATABOLIC STATE								
SURGERY	SRC		09-01-82 08-31-83	3	13300	*5	P50 GM 29327-02	401,799	82
** 3 TOTAL								729,836	
BOSTON	ROBERT BRECK BRIGHAM HOSPITAL								
SOBERMAN, ROY J	PURIFICATION AND CONTROL OF THE HUMAN 5-LIPOXYGENASE								
RHEUMATOLOGY/IMMUNOLOGY	BIO	2	07-01-82 06-30-83	2	22400	1	R01 GM 31193-01	59,855	82
** 1 TOTAL								59,855	
BOSTON	SIDNEY FARBER CANCER INSTITUTE								
HEREFORD, LYNNA M	THE YEAST CELL CYCLE								
LAB OF YEAST MOLECUL BIOL	GEN		07-01-82 11-30-82	0	21700	7	R01 GM 31311-01	59,436	82
HOWELL, NEIL	MITOCHONDRIAL GENETICS OF MAMMALIAN CELLS								
RADIATION THERAPY	MGN		01-01-82 12-31-82	1	21280	5	R01 GM 28710-02	87,533	82
KOLODNER, RICHARD D	ENZYMATIC MECHANISMS OF GENETIC RECOMBINATION								
CANCER GENETICS	MG		12-01-81 11-30-82	4	21200	2	R01 GM 26017-04	161,841	82
MAXAM, ALLAN M	METHODS FOR RESOLVING GENE STRUCTURE								
CANCER GENETICS	GEN		12-01-81 11-30-82	1	21600	5	R01 GM 28507-02	144,031	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
BOSTON	SIDNEY FARBER CANCER INSTITUTE								
PARDEE, ARTHUR B	BIOCHEMISTRY OF G0/G1 REGULAT.ON IN ANIMAL CELLS								
CELL GROWTH AND REGULATION	CP		05-01-82 04-30-83	1	22200	5	R01 GM 24571-05	147,118	82
SAGER, RUTH	CYTOPLASMIC GENETIC CONTROL SYSTEMS								
CANCER GENETICS	MBY		07-01-82 06-30-83	3	21280	5	R01 GM 22874-08	182,134	82
SLAYTER, HENRY S	ELECTRON MICROSCOPY OF MACROMOLECULAR STRUCTURES								
ELECTRON MICROSCOPY	CBY		04-01-82 03-31-83	1	12930	5	R01 GM 14237-15	92,224	82
SZOSTAK, JACK W	MECHANISMS OF SEQUENCE RECTIFICATION IN YEAST RDNA								
CANCER GENETICS	GEN		04-01-82 03-31-83	0	21200	5	R01 GM 27862-03	82,197	82
** 8 TOTAL								956,514	
BOSTON	TUFTS UNIVERSITY								
BACHOVCHIN, WILLIAM W	NMR STUDIES OF ENZYME MECHANISMS								
BIOCHEMISTRY AND PHARMACOLOGY	BBCB		08-01-82 07-31-83	0	22400	5	R01 GM 27927-03	35,288	82
GELFAND, JEFFREY A	BURN INJURY AND SHOCK: THE ROLE OF COMPLEMENT								
MEDICINE	SAT		12-01-81 11-30-82	1	13450	5	R23 GM 28591-02	53,811	82
GILL, D MICHAEL	FUNCTION OF POLY (ADP-RIBOSE)								
MOLECULAR BIOL & MICROBIOLOGY	MBY		01-01-82 12-31-82	3	21200	5	R01 GM 28482-02	85,021	82
GOLDBERG, EDWARD B	VIRAL-HOST RECOGNITION AND PENETRATION								
MOLECULAR BIOL & MICROBIOLOGY	MBC		12-01-81 11-30-82	4	21320	2	R01 GM 13511-17	144,447	82
SONENSHEIN, ABRAHAM L	INITIATION OF RNA SYNTHESIS								
MOLECULAR BIOL & MICROBIOLOGY	MG		05-01-82 04-30-83	2	21310	1	R01 GM 30408-01	83,835	82
SONENSHEIN, ABRAHAM L	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION								
MOLECULAR BIOL & MICROBIOLOGY	MBC		02-01-82 01-31-83	2	21750	5	R01 GM 19168-11	82,745	82
WRIGHT, ANDREW	STRUCTURE AND FUNCTION OF THE CELL MEMBRANE								
MOLECULAR BIOL & MICROBIOLOGY	MBC		05-01-82 04-30-83	3	22300	5	R01 GM 15837-15	121,530	82
** 7 TOTAL								606,677	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MASSACHUSETTS										
BOSTON	UNIVERSITY OF MASSACHUSETTS BOSTON									
LAUFER, DANIEL A CHEMISTRY	CYCLOAMYLOSE COMPLEXES BBCA	06-01-82	05-31-83	1	22450	5	R01 GM	26004-04	58,006	82
** 1 TOTAL									58,006	
CAMBRIDGE	HARVARD UNIVERSITY									
BOGORAD, LAWRENCE CELLULAR & DEVELOPMTL BIOLOGY	MOLECULAR MECHANISMS OF INTRACELLULAR INTEGRATION MBY	06-01-82	05-31-83	0	21280	5	R01 GM	20470-10	102,958	82
BOGORAD, LAWRENCE CELLULAR & DEVELOPMTL BIOLOGY	ORGANELLE GENES AND GENE REGULATION GEN	08-01-82	07-31-83	2	21280	21	R01 GM	30183-01A1	116,501	82
BRANTON, DANIEL CELLULAR & DEVELOPMTL BIOLOGY	ORGANIZATION OF NORMAL AND TRANSFORMED CELL MEMBRANES CTY	06-01-82	05-31-83	0	22300	5	R01 GM	20396-10	122,965	82
CANTLEY, LEWIS C BIOCHEM AND MOLECULAR BIOLOGY	STRUCTURE AND MECHANISM OF MEMBRANE TRANSPORT SYSTEMS PB	04-01-82	03-31-83	4	22300	2	R01 GM	26199-04	72,694	82
CANTLEY, LEWIS C, JR BIOCHEM AND MOLECULAR BIOLOGY	MECHANISM OF CATION TRANSPORT REGULATION PB	02-01-82	01-31-83	1	22300	5	R01 GM	28538-02	53,052	82
COREY, ELIAS J CHEMISTRY	COMPUTER-ASSISTED ANALYSIS OF CHEMICAL SYNTHESIS MCHA	07-01-82	06-30-83	3	11940	5	R01 GM	18519-12	187,264	82
DRESSLER, DAVID H BIOCHEM AND MOLECULAR BIOLOGY	STUDIES ON DNA REPLICATION AND RECOMBINATION MG	12-01-81	11-30-82	3	21200	5	R01 GM	17088-13	93,644	82
GELBART, WILLIAM M CELLULAR & DEVELOPMTL BIOLOGY	PATTERN FORMATION AND GENE ORGANIZATION IN DROSOPHILA GEN	12-01-81	11-30-82	2	21700	5	R01 GM	28669-02	94,725	82
GELBART, WILLIAM M CELLULAR & DEVELOPMTL BIOLOGY	GENETIC CONTROL OF DROSOPHILA ACETYLCHOLINESTERASE GEN	01-01-82	12-31-83	0	21320	5	R01 GM	23522-06	64,420	82
GILBERT, WALTER BIOCHEM AND MOLECULAR BIOLOGY	ROLE OF RIBONUCLEIC ACID IN PROTEIN SYNTHESIS GEN	08-01-82	07-31-83	1	21750	2	R01 GM	09541-21	357,728	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
CAMBRIDGE			HARVARD UNIVERSITY						
GILBERT, WALTER / BIOCHEM AND MOLECULAR BIOLOGY	MBC		INTERACTION OF PROTEINS WITH DNA / 12-01-81 11-30-82	0	21600	5	R01 GM 21514-08	85,576	82
GREER, HELEN A / CELLULAR & DEVELOPMTL BIOLOGY	GEN		GENE REGULATION OF HISTIDINE BIOSYNTHESIS IN YEAST / 12-01-81 11-30-82	2	21750	2	R01 GM 25207-04	148,365	82
HASTINGS, JOHN W / CELLULAR & DEVELOPMTL BIOLOGY	CBY		MOLECULAR AND CELLULAR MECHANISMS OF BIOLOGICAL RHYTHMS / 12-01-81 11-30-82	0	22200	5	R01 GM 19536-10	85,641	82
HOLM, RICHARD H / CHEMISTRY	BMT		BIOLOGICALLY RELATED IRON-SULFUR CHEMISTRY / 07-01-82 06-30-83	3	11920	5	R01 GM 28856-03	184,709	82
JOHNSON, RICHARD W / CHEMISTRY	BNP		ENZYME MODELS BASED ON ANTIBODY-HAPTEN COMPLEXES / 02-01-82 01-31-83	2	11920	1	R01 GM 30079-01	25,772	82
KAFATOS, FOTIS C / CELLULAR & DEVELOPMTL BIOLOGY	MBY		REGULATION AND EVOLUTION OF MULTIGENE FAMILIES / 07-01-82 06-30-83	2	21700	5	R01 GM 24225-06	84,132	82
KAFATOS, FOTIS C / CELLULAR & DEVELOPMTL BIOLOGY	SSS		MOLECULAR AND DEVELOPMENTAL GENETICS OF DROSOPHILA / 08-01-82 07-31-83	3	21750	5	P01 GM 29301-02	577,139	82
KESSIN, RICHARD H / CELLULAR & DEVELOPMTL BIOLOGY	GEN		CONTROL OF AGGREGATION IN D. DISCOIDEUM / 02-01-82 01-31-83	0	21700	5	R01 GM 21809-08	93,198	82
KLECKNER, NANCY E / BIOCHEM AND MOLECULAR BIOLOGY	MG		ILLEGITIMATE RECOMBINATION BY DRUG RESISTANCE ELEMENTS / 07-01-82 06-30-83	3	21780	5	R01 GM 25326-05	143,402	82
KNOWLES, JEREMY R / CHEMISTRY	MBC		TRANSPORT ACROSS BIOLOGICAL MEMBRANES / 12-01-81 11-30-82	3	22300	5	R01 GM 22961-06	81,890	82
KNOWLES, JEREMY R / CHEMISTRY	BIO		MECHANISMS OF ENZYME CATALYSIS / 12-01-81 11-30-82	1	22400	5	R01 GM 21659-08	135,979	82
KRONAUER, RICHARD E / DIVISION OF APPLIED SCIENCES	SSS		MATHEMATICAL MODELING OF HUMAN CIRCADIAN RHYTHMS / 05-01-82 04-30-83	2	12200	1	R01 GM 30719-01	44,352	82
LEWONTIN, RICHARD C / MUSEUM OF COMPARATIVE ZOOLOGY	GEN		GENETIC VARIATION OF PROTEINS IN NATURAL POPULATIONS / 03-01-82 02-28-83	4	21800	2	R01 GM 21179-09	192,867	82
LIPSCOMB, WILLIAM N / CHEMISTRY	BBCA		STRUCTURE & FUNCTION OF BIOLOGICALLY ACTIVE MOLECULES / 09-01-82 08-31-83	2	22550	5	R01 GM 06920-24	331,102	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
CAMBRIDGE	HARVARD UNIVERSITY								
LOSICK, RICHARD M	ROLE OF RNA POLYMERASE IN BACTERIAL DIFFERENTIATION								
CELLULAR & DEVELOPMTL BIOLOGY	MBC		02-01-82 01-31-83	2	21750	5	R01 GM 18568-10	135,498	82
MANIATIS, THOMAS P	MOLECULAR GENETICS OF DROSOPHILA ALCOHOL DEHYDROGENASE								
BIOCHEM AND MOLECULAR BIOLOGY	GEN		07-01-82 06-30-83	3	21600	5	R01 GM 29379-02	159,955	82
MESELSON, MATTHEW S	NUCLEAR AND MESSENGER RNA OF DROSOPHILA								
BIOCHEM AND MOLECULAR BIOLOGY	GEN		07-01-82 06-30-83	2	21750	5	R01 GM 22274-08	273,549	82
PTASHNE, MARK	DNA-PROTEIN BINDING AND SITE-SPECIFIC MUTAGENESIS								
BIOCHEM AND MOLECULAR BIOLOGY	MG		07-01-82 06-30-83	2	21250	1	R01 GM 31139-01	91,811	82
PTASHNE, MARK	CARCINOGENS AND THE SOS RESPONSE								
BIOCHEM AND MOLECULAR BIOLOGY	MG		08-01-82 07-31-83	2	21200	1	R01 GM 29988-01	135,445	82
PTASHNE, MARK S	STRUCTURAL STUDY OF REPRESSOR-OPERATOR INTERACTIONS								
BIOCHEM AND MOLECULAR BIOLOGY	BBCA		04-01-82 03-31-83	1	21750	5	R01 GM 29109-02	109,586	82
WANG, JAMES C	PHYSICOCHEMICAL STUDIES OF NUCLEIC ACIDS								
BIOCHEM AND MOLECULAR BIOLOGY	MG		07-01-82 06-30-83	2	21200	5	R01 GM 24544-06	192,349	82
WESTHEIMER, FRANK H	MECHANISM OF ENZYME ACTION								
CHEMISTRY	PC		12-01-80 11-30-83	0	11920	5	R01 GM 04712-25	73,508	81
WESTHEIMER, FRANK H	MECHANISM OF ENZYME ACTION								
CHEMISTRY	PC		12-01-80 11-30-83	0	11920	3	R01 GM 04712-25S1	38,740	81
WHITESIDES, GEORGE M	ENZYMES AS CATALYSTS IN ORGANIC SYNTHESIS								
CHEMISTRY	BNP		04-01-82 03-31-83	3	11940	1	R01 GM 30367-01	218,501	82
** 33 TOTAL								4,909,017	
CAMBRIDGE	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
BERCHTOLD, GLENN A	ARENE OXIDES: IMPORTANCE IN BIOLOGICAL REACTIONS								
CHEMISTRY	BNP		07-01-82 06-30-83	2	11920	2	R01 GM 26388-04	107,890	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
CAMBRIDGE			MASSACHUSETTS INSTITUTE OF TECHNOLOGY						
BIEMANN, KLAUS CHEMISTRY	SSS		MASS SPECTROMETRIC SEQUENCING OF PROTEINS 01-01-82 12-31-82	3	12840	5	R01 GM 05472-24	199,276	82
BOTSTEIN, DAVID BIOLOGY	VR		MOLECULAR GENETICS WITH PHAGE P22 01-01-82 12-31-82	2	21200	5	R01 GM 18973-11	74,850	82
BOTSTEIN, DAVID BIOLOGY	MGN		HUMAN DNA POLYMORPHISMS FOR GENETIC MAPPING 05-01-82 04-30-83	2	21480	1	R01 GM 30467-01	122,264	82
BOTSTEIN, DAVID BIOLOGY	GEN		MOLECULAR GENETICS OF MORPHOGENETIC PATHWAYS 06-01-82 05-31-83	1	21700	5	R01 GM 21253-08	133,596	82
BRUNENGRABER, HENRI NUTRITION AND FOOD SCIENCE	SSS		CONTINUOUS MS MONITORING OF LIVER ALCOHOL METABOLISM 04-01-82 03-31-83	0	11760	5	R01 GM 27723-03	72,723	82
BUCHI, GEORGE H CHEMISTRY	BNP		THE CHEMISTRY OF NATURAL PRODUCTS 04-01-82 03-31-83	4	11910	2	R01 GM 09686-21	235,634	82
DANHEISER, RICK L CHEMISTRY	MCHA		SYNTHETIC APPROACHES TO CYCLIC NATURAL PRODUCTS 12-01-81 11-30-82	2	11910	2	R01 GM 25950-04	106,533	82
DANHEISER, RICK L CHEMISTRY	MCHA		PERICYCLIC REACTIONS FOR ORGANIC SYNTHESIS 07-01-82 06-30-83	0	11940	5	R01 GM 28273-03	68,704	82
DEUTSCH, MARTIN PHYSICS	BBCB		BIOLOGICAL CRYSTALLOGRAPHY, A PRECISION AREA DETECTOR 04-01-82 03-31-83	1	12840	5	R01 GM 24918-05	122,531	82
FINK, GERALD R BIOLOGY	MBY		REGULATION OF HISTIDINE BIOSYNETHESIS IN YEAST 09-01-82 11-30-82	3	21750	7	R01 GM 31802-01	37,118	82
GRIFFIN, ROBERT C NONE	BBCB		SOLID STATE NMR STUDIES OF LIPID BILAYER STRUCTURE 07-01-82 06-30-83	2	22500	2	R01 GM 23289-07	131,874	82
GRIFFIN, ROBERT G NONE	BBCB		SOLID STATE NMR STUDIES OF PEPTIDES AND PROTEINS 05-01-82 04-30-83	1	22500	5	R01 GM 23403-06	112,700	82
GRIFFIN, ROBERT G NONE	BBCB		NMR STUDIES OF LIPID ASSOCIATION 07-01-82 06-30-83	2	22500	5	R01 GM 25505-05	97,825	82
GUARENTE, LEONARD P BIOLOGY	GEN		GENETICS OF TRANSCRIPTION & TRANSLATION IN YEAST 05-01-82 04-30-83	2	21750	1	R01 GM 30454-01	90,804	82

MASSACHUSETTS

CAMBRIDGE

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
HORVITZ, HOWARD R / BIOLOGY	GEN		GENETIC ANALYSIS OF NEMATODE EGG-LAYING	01-01-82	12-31-82	3	21400	5	R01 GM 24663-05	65,689	82
HORVITZ, HOWARD R / BIOLOGY	CBY		CONTROL OF CELL DIVISION IN THE NEMATODE C ELEGANS	04-01-82	03-31-83	3	22200	5	R01 GM 24943-05	57,001	82
HOUSMAN, DAVID E / NONE	MGN		GENETIC STRUCTURE AND FUNCTION OF HUMAN CHROMOSOME II	04-01-82	03-31-83	0	21480	5	R01 GM 27882-03	81,909	82
KAREL, MARCUS / NUTRITION AND FOOD SCIENCE	BBCB		FREE RADICAL REACTIONS OF LIPOPEROXIDES AND PROTEINS	12-01-81	11-30-82	0	11920	5	R01 GM 26472-03	67,296	82
KEMP, DANIEL S / CHEMISTRY	BNP		SYNTHESIS AND REACTIONS OF PEPTIDES	07-01-82	06-30-83	4	11440	2	R01 GM 13453-17	188,504	82
KHORANA, HAR G / BIOLOGY	BIO		SYNTHETIC AND BIOLOGICAL STUDIES OF NUCLEIC ACIDS	12-01-81	11-30-82	3	22300	5	R01 GM 28289-02	582,970	82
KING, JONATHAN A / BIOLOGY	VR		BACTERIOPHAGE ASSEMBLY AND ITS GENETIC CONTROL	09-01-82	08-31-83	0	21320	5	R01 GM 17980-13	141,339	82
KRIEGER, MONTY / NONE	CTY		GENETIC ANALYSIS OF RECEPTOR-MEDIATED ENDOCYTOSIS	07-01-82	06-30-83	2	22300	1	R01 GM 30243-01A1	91,247	82
LANGER, ROBERT S / NUTRITION AND FOOD SCIENCE	PHRA		SURGICAL IMPLANTS FOR SUSTAINED MACROMOLECULAR RELEASE	07-01-82	06-30-83	2	12300	2	R01 GM 26698-04	167,481	82
LANGER, ROBERT S / NUTRITION AND FOOD SCIENCE	SB		A SYSTEM FOR HEPARIN REMOVAL	01-01-82	12-31-82	2	12400	2	R01 GM 25810-04	132,289	82
LEVIN, DANIEL H / NONE	PC		CONTROL OF PROTEIN SYNTHESIS BY DOUBLE-STRANDED RNA	01-01-82	12-31-82	3	21320	5	R01 GM 24825-05	128,219	82
LODISH, HARVEY F / BIOLOGY	CP		STRUCTURE AND BIOSYNTHESIS OF AN HEPATIC RECEPTOR	07-01-82	06-30-83	0	22300	5	R01 GM 27989-03	96,712	82
LODISH, HARVEY F / BIOLOGY	CTY		CHROMATIN STRUCTURE IN DICTYOSTELIUM DISCOIDEUM	07-01-82	06-30-83	0	21600	5	R01 GM 28097-03	65,248	82
MAGASANIK, BORIS / BIOLOGY	MBC		REGULATION AND FUNCTION OF GLUTAMINE SYNTHETASE	09-01-82	08-31-83	4	21750	2	R01 GM 07446-24	145,272	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
CAMBRIDGE	MASSACHUSETTS INSTITUTE OF TECHNOLOGY								
MASAMUNE, SATORU CHEMISTRY	CHELATION-ANTIBIOTICS/TREATMENT OF IRON OVERLOAD BMT		08-01-82 07-31-83	0	11770	5	R01 GM 28828-06	35,628	82
MEYER, BARBARA J BIOLOGY	ANALYSIS OF NEMATODE SEX DETERMINATION GEN		09-01-82 08-31-83	2	21700	1	R01 GM 30702-01	126,242	82
NEURINGER, LEO J NONE	NMR STUDIES OF NEURAL MEMBRANES AND MODEL SYSTEMS BBCB		04-01-82 03-31-83	1	22300	5	R01 GM 28149-02	96,094	82
ORME-JOHNSON, WILLIAM H CHEMISTRY	ENZYMES AND REGULATORY PROTEINS OF DINITROGEN REDUCTION SSS	1	07-01-82 06-30-83	3	22400	1	R01 GM 30943-01	208,723	82
ORME-JOHNSON, WILLIAM, III CHEMISTRY	STRUCTURES & MECHANISMS OF ELECTRON TRANSFER ENZYMES BBCB		07-01-82 06-30-83	1	22500	5	R01 GM 28358-04	121,443	82
PARDUE, MARY L BIOLOGY	GENE FUNCTION ANALYSIS BY POLYTENE CHROMOSOMES GEN		02-01-82 01-31-83	2	21750	5	R01 GM 21874-08	155,132	82
PETSKO, GREGORY A CHEMISTRY	CRYSTALLOGRAPHIC STUDIES OF PROTEIN DYNAMICS BBCB		12-01-81 11-30-82	0	22550	5	R01 GM 27123-03	35,650	82
PETSKO, GREGORY A CHEMISTRY	STRUCTURE AND REACTION OF IRON SUPEROXIDE DISMUTASE BBCB		07-01-82 06-30-83	2	22550	1	R01 GM 31212-01	23,104	82
RAJBHANDARY, UTTAM L BIOLOGY	STRUCTURE AND FUNCTION OF TRANSFER RIBONUCLEIC ACIDS PC		06-01-82 05-31-83	0	21320	5	R01 GM 17151-13	171,298	82
RHA, CHOKYUN NUTRITION AND FOOD SCIENCE	PROTEIN-PROTEIN INTERACTIONS: RHEOLOGICAL ASSESSMENT BBCB		02-01-82 01-31-83	1	22500	5	R01 GM 28534-02	60,393	82
ROSE, ROBERT M MATERIALS SCIENCE AND ENGR	POLYETHYLENE BEHAVIOR IN JOINT REPLACEMENTS AFY		08-01-82 07-31-83	0	12300	5	R01 GM 28829-03	162,270	82
ROUSH, WILLIAM R CHEMISTRY	INTRAMOLECULAR DIELS-ALDER REACTIONS MCHA		07-01-82 06-30-83	2	11940	2	R01 GM 26782-04	92,003	82
SCHIMMEL, PAUL R BIOLOGY	INVESTIGATIONS OF REACTIONS OF PHYSIOLOGICAL IMPORTANCE BBCA		06-01-82 05-31-83	1	21320	5	R01 GM 15539-15	151,754	82
SCHIMMEL, PAUL R BIOLOGY	GENETIC APPROACHES TO PROTEIN-NUCLEIC ACIDS INTERACTIONS GEN		03-01-82 02-28-83	0	21320	5	R01 GM 23562-06	80,153	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
CAMBRIDGE			MASSACHUSETTS INSTITUTE OF TECHNOLOGY						
SHARPLESS, K BARRY / CHEMISTRY	BMT		ASYMMETRIC OXIDATION OF ORGANIC COMPOUNDS / 01-01-82 12-31-82	2	11940	5	R01 GM 28384-02	129,835	82
SHARPLESS, K BARRY / CHEMISTRY	BNP		SYNTHESIS OF SACCHARIDES AND PALYTOXIN / 08-01-82 07-31-83	2	11940	1	R01 GM 31124-01	132,761	82
SIGNER, ETHAN R / BIOLOGY	GEN		MOLECULAR GENETICS OF RHIZOBIUM NODULATION PLASMIDS / 07-01-82 06-30-83	2	21780	1	R01 GM 31030-01	105,484	82
SOLOMON, FRANK E / NONE	CBY		CYTOPLASMIC DETERMINATION OF DETAILED CELL MORPHOLOGY / 04-01-82 03-31-83	0	22250	5	R01 GM 27894-03	101,379	82
TORRIANI-GORINI, ANNAMARIA / BIOLOGY	MBC		GENETICS OF ALKALINE PHOSPHATASE EXPRESSION IN E. COLI / 12-01-80 11-30-82	0	21750	5	R01 GM 25854-03	64,602	81
TORRIANI-GORINI, ANNAMARIA / BIOLOGY	MBC		PHOSPHATE REGULATION OF E COLI: ALKALINE PHOSPHATASE / 04-01-82 03-31-83	3	21750	5	R01 GM 24009-05	109,711	82
VARSHAVSKY, ALEXANDER J / BIOLOGY	CBY		STRUCTURE OF CELLULAR AND VIRAL CHROMATIN STUDIES / 12-01-81 11-30-82	1	21600	5	R01 GM 26086-04	77,969	82
WALKER, GRAHAM C / BIOLOGY	MG		CELLULAR RESPONSES TO DNA DAMAGE / 04-01-82 03-31-83	3	21250	5	R01 GM 28988-02	97,492	82
WALSH, CHRISTOPHER T / CHEMISTRY	BIO		COENZYME ANALOGUES AS PROBES OF FLAVOENZYME CATALYSIS / 05-01-82 04-30-83	0	22400	5	R01 GM 21643-08	85,041	82
WALSH, CHRISTOPHER T / CHEMISTRY	PC		ENZYMATIC REACTION MECHANISMS / 01-01-82 12-31-82	3	22400	5	R01 GM 20011-10	198,871	82
WAUGH, JOHN S / CHEMISTRY	BBCB		HIGH RESOLUTION NMR IN SOLIDS / 01-01-82 03-31-83	0	22500	5	R01 GM 16552-14	158,175	82
YANNAS, IOANNIS V / MECHANICAL ENGINEERING	SAT		DESIGN AND EVALUATION OF AN ARTIFICIAL SKIN / 04-01-82 03-31-83	0	13420	5	R01 GM 23946-06	162,010	82
** 55 TOTAL								6,668,715	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MASSACHUSETTS										
CHESTNUT HILL	BOSTON COLLEGE									
CLARKE, MICHAEL J	STABLE HEAVY-METAL COMPLEXES OF NUCLEOTIDE AND COENZYME									
CHEMISTRY	BMT		08-01-81 07-31-83	0	11920	5	R01 GM	26390-03	39,943	81
KANTROWITZ, EVAN R	THE MOLECULAR BASIS OF CELLULAR CONTROL MECHANISMS									
CHEMISTRY	BIO		04-01-82 03-31-83	3	22400	2	R01 GM	26237-04	125,244	82
KELLY, T ROSS	SYNTHESIS OF STREPTOLYDIGIN AND ITS CONGENERS									
CHEMISTRY	MCHA		04-01-82 03-31-83	1	11910	5	R01 GM	28968-02	115,525	82
KELLY, T ROSS	HETEROCYCLIC SYNTHESIS: RUBROLONE AND OTHER PYRIDINES									
CHEMISTRY	MCHA		05-01-82 04-30-83	2	11940	1	R01 GM	30696-01	102,036	82
NICHOLAS, KENNETH M	SYNTHETIC UTILITY OF METAL-STABILIZED CARBENIUM IONS									
CHEMISTRY	BMT		07-01-82 06-30-83	2	11940	2	R01 GM	26760-04	51,963	82
PETRI, WILLIAM H	CONTROL OF DIFFERENTIATION: DROSOPHILA CHORION GENES									
BIOLOGY	GEN		09-01-82 08-31-83	0	21700	5	R01 GM	24185-06	86,071	82
** 6 TOTAL									520,782	
LOWELL	UNIVERSITY OF LOWELL									
WONG, SHAN S	ENZYME REGULATION BY PROTEIN-PROTEIN INTERACTION									
CHEMISTRY	BIO		01-01-82 12-31-82	1	22400	5	R01 GM	26623-02	70,548	82
** 1 TOTAL									70,548	
MEDFORD	TUFTS UNIVERSITY									
HECHT, NORMAN B	GENE EXPRESSION DURING SPERMATOGENESIS									
BIOLOGY	REB		09-01-82 08-31-83	0	21750	5	R01 GM	29224-03	76,586	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
MEDFORD			TUFTS UNIVERSITY						
SIEGEL, ELI C / BIOLOGY	MBC		GENETIC CONTROL OF MUTATION IN ESCHERICHIA COLI / 01-01-81 12-31-82	0	21250	5	R01 GM 25921-03	69,424	81
** 2 TOTAL								146,010	
SHREWSBURY			WORCESTER FDN FOR EXPER BIOLOGY						
ABERHART, DONALD J / NONE	BNP		STUDIES ON ENZYME STEREOCHEMISTRY / 12-01-81 11-30-82	3	11920	2	R01 GM 24420-04	125,008	82
ALBERS, H ELLIOTT / NONE	BPO		NEURAL AND HORMONAL CONTROL OF CIRCADIAN BEHAVIORS / 08-01-82 07-31-83	2	13700	1	R01 GM 31199-01	64,029	82
BERGER, EDWARD A / NONE	CP		A SURFACE LECTIN AND CELL COHESION IN DICTYOSTELIUM / 04-01-82 03-31-83	2	22200	2	R01 GM 25588-04	129,716	82
GREENBERG, JAY R / NONE	MBY		MRNA-PROTEIN INTERACTIONS IN POLYRIBOSOMES / 03-01-82 02-28-83	1	21320	5	R01 GM 28697-02	82,961	82
KUPFER, DAVID / NONE	PHRA		PROSTAGLANDINS: INTERACTIONS WITH MONOOXYGENASES / 07-01-81 03-31-83	0	11760	5	R01 GM 22688-06	97,446	81
PEDERSON, THORU / CELL BIOLOGY GROUP	GEN		GENE TRANSCRIPTION IN DROSOPHILA / 07-01-82 06-30-83	0	21750	5	R01 GM 28274-03	77,067	82
PEDERSON, THORU / NONE	MBY		GENE TRANSCRIPTION IN EUKARYOTES / 12-01-81 11-30-82	1	21750	5	R01 GM 21595-08	201,855	82
SLUDER, GREENFIELD / NONE	MBY		RNA IN FORMATION, FUNCTION & REPRODUCTION OF CENTROSOME / 05-01-82 04-30-83	2	22200	1	R01 GM 30758-01	99,831	82
VALLEE, RICHARD B / NONE	CBY		STRUCTURE, PHOSPHORYLATION & FUNCTION OF MAPS / 07-01-82 06-30-83	2	22250	2	R01 GM 26701-04	128,733	82
WADSWORTH, SAMUEL C / NONE	GEN		TRANSCRIPTIONAL CONTROL OF HEAT SHOCK GENES / 08-01-81 03-31-83	0	21600	5	R01 GM 26710-03	101,448	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
SHREWSBURY	WORCESTER FDN FOR EXPER BIOLOGY								
WITMAN, GEORGE B, III / NONE	MOLECULAR MECHANISM OF FLAGELLA MOTILITY AND ASSEMBLY / MBY		08-01-81 11-30-82	0	22250	7	R01 GM 30626-01	94,121	81
** 11 TOTAL								1,202,215	
SOUTH HADLEY	MOUNT HOLYOKE COLLEGE								
KOHLER, SUSAN J / CHEMISTRY	31P AND 2H NMR INVESTIGATION OF PHOSPHOLIPID BILAYERS / BBCB		09-01-81 11-30-82	0	22300	5	R01 GM 27140-02	35,335	81
** 1 TOTAL								35,335	
WALTHAM	BRANDEIS UNIVERSITY								
ABELES, ROBERT H / BIOCHEMISTRY	ENZYME MECHANISMS AND ENZYME INHIBITORS / BIO		12-01-81 11-30-82	0	22400	5	R01 GM 12633-19	126,288	82
ABELES, ROBERT H / BIOCHEMISTRY	HMG-COA REDUCTASE--INHIBITION AND ACTION / BIO		06-01-82 05-31-83	0	22400	5	R01 GM 27667-03	122,231	82
DE ROSIER, DAVID J / NONE	STRUCTURAL STUDIES OF BIOLOGICAL COMPLEXES / BBCB		09-01-81 02-28-83	3	22550	5	R01 GM 21189-09	141,813	81
DE ROSIER, DAVID J / NONE	STRUCTURAL STUDIES OF BIOLOGICAL COMPLEXES / BBCB		09-01-82 08-31-83	2	22550	5	R01 GM 21189-10	189,882	82
DEROSIER, DAVID J / BIOLOGY	STRUCTURAL STUDIES OF CELLULAR ASSEMBLIES OF ACTIN / BBCB		04-01-82 03-31-83	2	22550	2	R01 GM 26357-04	54,358	82
ERNST, VIVIAN G / BIOCHEMISTRY	CONTROL OF TRANSLATION BY PROTEIN PHOSPHORYLATION / BIO		09-01-82 08-31-83	2	21320	1	R01 GM 29165-01	86,182	82

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS								
WALTHAM		BRANDEIS UNIVERSITY						
FASMAN, GERALD D BIOCHEMISTRY	BBCA	PROTEIN NUCLEIC ACID INTERACTIONS: CHROMATIN STUDIES 01-01-82 12-31-82	0	21600	5	R01 GM 17533-21	157,322	82
FREIFELDER, DAVID M BIOCHEMISTRY	MBC	PHYSICOCHEMICAL AND GENETIC STUDIES OF DNA FUNCTION 12-01-81 11-30-82	0	21280	5	R01 GM 14358-16	74,442	82
FULTON, CHANDLER M BIOLOGY	CBY	CELL DIFFERENTIATION AND ORGANELLE MORPHOGENESIS 04-01-82 03-31-83	0	22250	5	R01 GM 24444-05	141,417	82
HABER, JAMES E BIOLOGY	GEN	CONTROL OF CELL TYPE AND GAMETOGENESIS 01-01-82 12-31-82	3	21700	5	R01 GM 20056-10	125,874	82
HABER, JAMES E NONE	GEN	PHYSICAL MONITORING OF MEIOTIC DNA RECOMBINATION 09-29-81 03-31-83	2	21200	1	R01 GM 29736-01	41,858	81
HALL, JEFFREY C BIOLOGY	GEN	NEUROGENETICS OF DROSOPHILA REPRODUCTIVE BEHAVIOR 12-01-81 11-30-82	0	21400	5	R01 GM 21473-08	71,056	82
HALVORSON, HARLYN O BIOLOGY	MBC	REGULATION OF DIFFERENTIATION IN BACILLUS SPORES 01-01-82 12-31-82	2	21750	5	R01 GM 18904-11	138,010	82
HALVORSON, HARLYN O BIOLOGY	BIO	ORGANIZATION & REGULATION OF INVERTASE STRUCTURAL GENE 05-01-82 04-30-83	2	21750	1	R01 GM 30707-01	110,635	82
JENCKS, WILLIAM P BIOCHEMISTRY	BIO	CHEMISTRY AND BIOCHEMISTRY OF ENERGY TRANSFER 12-01-81 11-30-82	1	22400	5	R01 GM 20888-25	128,662	82
JORDAN, PETER C CHEMISTRY	PHY	ELECTROSTATIC MODELLING OF ION PORES 01-01-82 12-31-82	1	22300	5	R01 GM 28643-02	50,499	82
KARRER, KATHLEEN M BIOLOGY	GEN	GERM LINE SPECIFIC DNA SEQUENCES IN TETRAHYMENA 04-01-82 03-31-83	0	21700	5	R01 GM 27864-03	71,397	82
KUSTIN, KENNETH CHEMISTRY	BMT	CHEMICAL KINETICS STUDIED BY RELAXATION SPECTROMETRY 04-01-82 03-31-83	1	22500	5	R01 GM 08893-19	64,735	82
LEVINE, LAWRENCE BIOCHEMISTRY	PC	PROSTAGLANDIN BIOSYNTHESIS BY CELLS IN CULTURE 12-01-81 11-30-82	2	22400	5	R01 GM 27256-03	108,045	82
LOWENSTEIN, JOHN M BIOCHEMISTRY	PB	FUNCTION AND CONTROL OF EXTRAMITOCHONDRIAL B-OXIDATION 07-01-82 06-30-83	4	22400	1	R01 GM 31099-01	146,662	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
WALTHAM			BRANDEIS UNIVERSITY						
LOWENSTEIN, JOHN M / BIOCHEMISTRY	PC		ENZYMATIC & CHEMICAL REACTIONS OF ADENOSINE TRIPHOSPHATE / 01-01-82 12-31-82	1	22400	5	R01 GM 07261-22	103,636	82
REDFIELD, ALFRED G / BIOCHEMISTRY	BBCA		STRUCTURAL KINETIC STUDIES BY NUCLEAR MAGNETIC RESONANCE / 08-01-82 07-31-83	3	22500	5	R01 GM 20168-10	186,295	82
ROSBASH, MICHAEL M / NONE	MBY		ORGANIZATION OF YEAST RIBOSOMAL PROTEIN GENES / 02-01-82 01-31-83	1	21320	5	R01 GM 23549-06	95,740	82
SCHIFF, JEROME A / INST/PHOTOBIO/CELLS/ORGANELLES	BBCA		STUDIES OF THE CONTINUITY OF CELLULAR ORGANELLES / 12-01-81 11-30-82	2	22300	2	R01 GM 14595-16	154,033	82
SCHLEIF, ROBERT F / BIOCHEMISTRY	MBC		REGULATORY MECHANISMS OF THE ARABINOSE OPERON / 05-01-82 04-30-83	1	21750	5	R01 GM 18277-12	120,694	82
SNIDER, BARRY B / CHEMISTRY	MCHA		NEW CARBON-CARBON BOND FORMING REACTIONS OF ALKENES / 03-01-82 02-28-83	2	11940	2	R01 GM 30528-02	101,198	82
SNIDER, BARRY B / CHEMISTRY	MCHA		PSEUDOMONIC ACID A TOTAL SYNTHESIS VIA NEIGHBORING GROUP / 09-01-82 08-31-83	1	11910	5	R01 GM 30354-02	80,269	82
STEVENSON, ROBERT / CHEMISTRY	MCHA		BISARYLPROPANOIDS OF CHEMICAL AND MEDICINAL INTEREST / 12-01-81 11-30-82	0	11910	5	R01 GM 19566-12	80,820	82
STUBBS, GERALD J / NONE	BBCB		STRUCTURE AND ASSEMBLY OF TOBACCO MOSAIC VIRUS / 04-01-82 03-31-83	1	21320	5	R01 GM 25236-05	116,473	82
TIMASHEFF, SERGE N / BIOCHEMISTRY	BBCA		STRUCTURE AND INTERACTIONS OF PROTEINS IN SOLUTION / 12-01-81 11-30-82	4	22500	2	R01 GM 14603-16	84,310	82
WENSINK, PIETER C / BIOCHEMISTRY	GEN		SEQUENCE ARRANGEMENT IN EUKARYOTIC DNA & CHROMOSOMES / 12-01-81 11-30-82	0	21600	5	R01 GM 21626-08	107,037	82
WHITE, KALPANA P / BIOLOGY	GEN		DEVELOPMENTAL GENETICS OF NEUROGENESIS / 04-01-82 03-31-83	1	21700	5	R01 GM 28954-02	66,030	82
** 31 TOTAL								3,447,903	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS								
WALTHAM	EUNICE KENNEDY SHRIVER CTR MTL RETARDATN							
RAGHAVAN, SRINIVASA	SPHINGOLIPID METABOLISM IN HUMAN SKIN FIBROBLASTS							
BIOCHEMICAL RESEARCH	CP		08-01-82 07-31-83	0	22300	5 R01 GM 28207-03	95,677	82
** 1 TOTAL							95,677	
WILLIAMSTOWN	WILLIAMS COLLEGE							
MC GILL, THOMAS E	THE GENETICS AND PHYSIOLOGY OF BEHAVIORAL DIFFERENCES							
PSYCHOLOGY	EXP		03-01-81 02-28-83	0	13700	5 R01 GM 07495-20	78,763	81
** 1 TOTAL							78,763	
WOODS HOLE	MARINE BIOLOGICAL LABORATORY							
GROSS, PAUL R	PHYSIOLOGY AND MOLECULAR BIOLOGY							
NONE	CMBD		01-01-82 12-31-82	1	22300	5 R13 GM 31136-04	95,933	82
INOUE, SHINYA	MITOSIS AND RELATED MOTILITY DIRECTLY IN LIVING CELLS							
NONE	CBY		04-01-82 03-31-83	3	22250	7 R01 GM 31617-01	227,226	82
STEPHENS, RAYMOND E	THE FORMATION AND FUNCTION OF MICROTUBULES							
NONE	MBY		09-01-82 08-31-83	0	22250	5 R01 GM 20644-10	123,908	82
STEPHENS, RAYMOND E	MECHANOSENSITIVITY AND THE CONTROL OF CILIARY MOVEMENT							
NONE	CBY		07-01-82 06-30-83	1	22250	5'R01 GM 29503-02	83,952	82
** 4 TOTAL							531,019	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MASSACHUSETTS									
WORCESTER	UNIVERSITY OF MASSACHUSETTS MEDICAL SCH								
BROWN, NEAL C	STRUCTURE AND FUNCTION OF ANIMAL CELL DNA POLYMERASE A								
PHARMACOLOGY	BIO		07-01-82 06-30-83	3	21200	5	R01 GM 28775-02	177,473	82
JACOBSON, ALLAN S	MESSENGER RNA METABOLISM IN DICTYOSTELIUM DISCOIDEUM								
MOLECULAR GENETICS & MICROBIOL	MBY		04-01-82 03-31-83	2	21320	5	R01 GM 27757-03	125,267	82
JOHNSON, GARY L	REGULATORY PROTEINS OF ADENYLATE CYCLASE								
BIOCHEMISTRY	MBY		07-01-81 11-30-82	0	22300	7	R01 GM 30324-01	73,995	81
JOHNSON, GARY L	REGULATORY PROTEINS OF ADENYLATE CYCLASE								
BIOCHEMISTRY	BIO	1	07-01-82 11-30-82	0	22300	3	R01 GM 30324-01S1	36,638	82
MARINUS, MARTIN G	RELATIONSHIP OF THE DAM GENE AND DNA ADENINE METHYLASE								
PHARMACOLOGY	MG		04-01-82 03-31-83	2	21250	1	R01 GM 30330-01	101,468	82
SUSSKIND, MIRIAM M	INTERACTING REGULATORS OF GENE EXPRESSION								
MOLECULAR GENETICS & MICROBIOL	MG		04-01-82 03-31-83	4	21750	2	R01 GM 22877-07	124,823	82
SUSSKIND, MIRIAM M	FINE-STRUCTURE GENETIC ANALYSIS OF A STRONG PROMOTER								
MOLECULAR GENETICS & MICROBIOL	MG		04-01-82 03-31-83	2	21750	5	R01 GM 29049-02	96,364	82
VILLA-KOMAROFF, LYDIA	THE STRUCTURE OF GENES ENCODING INSULIN-LIKE PEPTIDES								
MOLECULAR GENETICS & MICROBIOL	MGN		12-01-81 11-30-82	2	21600	2	R01 GM 26028-04	113,982	82
WRIGHT, GEORGE E	DESIGN OF SELECTIVE INHIBITORS OF DNA POLYMERASES								
PHARMACOLOGY	BNP		01-01-82 12-31-82	1	21100	5	R01 GM 21747-08	118,251	82
** 8 TOTAL								968,261	
*** 3 *CENTERS								445,968	
*** 241 NONCENTER								29,520,524	
*** 244 TOTAL								29,966,492	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MICHIGAN											
ANN ARBOR	UNIVERSITY OF MICHIGAN AT ANN ARBOR										
ADAMS, JULIAN P	EVOLUTION IN YEAST: GENE DUPLICATION AND DIVERGENCE										
DIV OF BIOLOGICAL SCIENCES	GEN		08-01-82	07-31-83	2	21800	1	R01 GM	30959-01	83,741	82
ALLEN, SALLY L	NUCLEAR DIFFERENTIATION IN TETRAHYMENA										
DIV OF BIOLOGICAL SCIENCES	GEN		04-01-82	03-31-83	0	21700	5	R01 GM	27703-03	105,065	82
BALLOU, DAVID P	RAPID KINETICS STUDY OF BIOLOGICAL OXYGENASES										
BIOLOGICAL CHEMISTRY	BMT		09-01-82	08-31-83	3	11920	5	R01 GM	20877-08	121,953	82
BENDER, ROBERT A	CONTROL OF DNA REPLICATION IN CAULOBACTER DEVELOPMENT										
DIV OF BIOLOGICAL SCIENCES	MBC		01-01-82	12-31-82	0	21200	5	R01 GM	27111-03	64,608	82
BROWN, WESLEY M	EVOLUTIONARY GENETICS OF MITOCHONDRIAL DNA										
DIV OF BIOLOGICAL SCIENCES	MGN		02-01-82	01-31-83	2	21800	1	R01 GM	30144-01	148,537	82
CHU, ERNEST H	GENETIC CONTROL OF MAMMALIAN CELL METABOLISM										
HUMAN GENETICS	MGN		12-01-81	11-30-82	2	21600	5	R01 GM	20608-08	87,981	82
COOPER, STEPHEN	CAMP AND THE DIFFERENTIATION OF DICTYOSTELIUM DISCOIDEUM										
MICROBIOLOGY AND IMMUNOLOGY	CTY		08-01-82	07-31-83	0	22200	5	R01 GM	28208-03	65,349	82
DATTA, PRASANTA	ALLOSTERIC ENZYMES AND METABOLIC REGULATION										
BIOLOGICAL CHEMISTRY	BIO		03-01-82	02-28-83	2	22400	5	R01 GM	21436-08	81,855	82
FEE, JAMES A	MECHANISMS OF SUPEROXIDE DISMUTASES										
BIOPHYSICS RESEARCH DIVISION	BMT		12-01-81	11-30-82	2	22400	5	R01 GM	21519-08	118,056	82
GAY, HELEN	CHROMOSOME STRUCTURE IN RELATION TO GENE ACTION										
DIV OF BIOLOGICAL SCIENCES	GEN		07-01-80	06-30-83	0	21600	5	R01 GM	10499-18	62,329	80
GOLDSTEIN, IRWIN J	PROTEIN-CARBOHYDRATE INTERACTION										
BIOLOGICAL CHEMISTRY	ALY		04-01-82	03-31-83	3	22410	5	R01 GM	29470-17	104,463	82
GREENBERG, G ROBERT	MEMBRANE PROTEINS IN DEOXYRIBONUCLEOTIDE SYNTHESIS										
BIOLOGICAL CHEMISTRY	PC		12-01-80	11-30-82	0	22300	5	R01 GM	25973-03	87,743	81
GREENBERG, G ROBERT	ROLE OF RIBONUCLEOTIDE REDUCTASE IN DNA REPLICATION										
BIOLOGICAL CHEMISTRY	MG		04-01-82	03-31-83	3	22500	5	R01 GM	29025-02	93,750	82
GROSSMAN, LAWRENCE I	GENES ON MITOCHONDRIAL DNA										
DIV OF BIOLOGICAL SCIENCES	GEN		09-01-82	08-31-83	2	21280	2	R01 GM	26546-05	298,710	82

MICHIGAN

ANN ARBOR

UNIVERSITY OF MICHIGAN AT ANN ARBOR

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
GROVES, JOHN T / CHEMISTRY	MOLECULAR PROBES OF THE MECHANISM OF CYTOCHROME P-450	PB		12-01-81	11-30-82	3	11760	2	R01 GM 25923-04	122,575	82
HELLING, ROBERT B / DIV OF BIOLOGICAL SCIENCES	CHLOROPLAST DNA FROM EUGLENA	GEN		07-01-82	06-30-83	0	21280	5	R01 GM 25565-05	68,691	82
JACQUEZ, JOHN A / PHYSIOLOGY	IDENTIFICATION OF TRANSPORT ASSOCIATED PROTEINS	PHY		01-01-81	12-31-82	0	22300	5	R01 GM 24507-04	53,494	81
KLUGER, MATTHEW J / PHYSIOLOGY	THE ROLE OF ENDOGENOUS CRYOGEN IN THERMOREGULATION	SSS		07-01-82	06-30-83	0	13700	5	R01 GM 28242-03	83,702	82
KNIGHT, PAUL R, III / EPIDEMIOLOGY	ANESTHETIC ACTION AND VIRUS REPLICATION	SAT		04-01-82	03-31-83	1	13200	5	R01 GM 28911-02	80,313	82
LANGMORE, JOHN P / BIOPHYSICS RESEARCH DIVISION	CHROMOSOME STRUCTURE	CTY		04-01-82	03-31-83	0	21600	5	R01 GM 27937-03	90,823	82
LAWTON, RICHARD G / CHEMISTRY	REAGENTS FOR EQUILIBRIUM PROTEIN CROSS-LINKS	BIO		04-01-81	09-30-82	0	22400	5	R01 GM 23679-03	74,334	81
LUDWIG, MARTHA L / BIOPHYSICS RESEARCH DIVISION	ENZYMES IN THE CRYSTALLINE STATE: STRUCTURE AND ACTIVITY	BBCB		09-01-82	08-31-83	3	22550	5	R01 GM 16429-15	177,655	82
LUTTER, LEONARD C / BIOLOGICAL CHEMISTRY	THE STRUCTURE OF TRANSCRIBING CHROMATIN	MBY		01-01-82	12-31-82	0	21750	5	R01 GM 27117-03	60,963	82
MASSEY, VINCENT / BIOLOGICAL CHEMISTRY	BIOLOGICAL OXIDATION MECHANISMS	BIO		09-01-82	08-31-83	0	22400	5	R01 GM 11106-20	236,333	82
MATTHEWS, ROWENA G / BIOLOGICAL CHEMISTRY	REGULATION OF FOLATE METABOLISM	BIO		04-01-82	03-31-83	3	22400	5	R01 GM 24908-05	93,762	82
MATTHEWS, ROWENA G / BIOLOGICAL CHEMISTRY	FOLYLPOLYGLUTAMATES AND FOLATE-DEPENDENT ENZYMES	BIO	1	07-01-82	06-30-83	2	22400	1	R01 GM 30885-01	48,621	82
MEISLER, MIRIAM H / HUMAN GENETICS	GENETIC REGULATION OF MOUSE ENZYMES	MGN		06-01-82	05-31-83	3	21320	5	R01 GM 24872-06	113,970	82
MEYERHOFF, MARK E / CHEMISTRY	POLYMER MEMBRANE BASED POTENTIOMETRIC GAS SENSORS	BMT		04-01-82	03-31-83	1	12400	5	R01 GM 28882-02	57,833	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN									
ANN ARBOR			UNIVERSITY OF MICHIGAN AT ANN ARBOR						
MOORE, GORDON P / DIV OF BIOLOGICAL SCIENCES	GEN		ORGANIZATION OF TWO STRUCTURAL GENES IN FOUR DROSOPHILID / 04-01-82 03-31-83	1	21600	5	R01 GM 28851-02	85,362	82
MORRIS, MICHAEL D / CHEMISTRY	SSS		TIME/SPACE RESOLVED THERMAL BLOOMING SPECTROSCOPY / 01-01-82 12-31-82	1	12840	5	R01 GM 28484-02	47,073	82
NEIDHARDT, FREDERICK C / MICROBIOLOGY AND IMMUNOLOGY	MBC		REGULATION OF BACTERIAL METABOLISM / 09-01-82 08-31-83	0	21320	5	R01 GM 17892-13	124,757	82
OXENDER, DALE L / BIOLOGICAL CHEMISTRY	CP		TRANSPORT COMPONENTS FROM EUKARYOTES / 04-01-82 03-31-83	4	22300	2	R01 GM 20737-09	145,893	82
OXENDER, DALE L / BIOLOGICAL CHEMISTRY	SSS		MEMBRANE TRANSPORT COMPONENTS IN BACTERIA / 08-01-82 07-31-83	2	22300	5	R01 GM 11024-19	115,624	82
PRINGLE, JOHN R / DIV OF BIOLOGICAL SCIENCES	GEN		GENETIC STUDY OF THE YEAST CELL CYCLE / 07-01-82 06-30-83	2	21700	1	R01 GM 31006-01	106,342	82
SAVAGEAU, MICHAEL A / MICROBIOLOGY AND IMMUNOLOGY	SSS		ANALYSIS OF MOLECULAR NETWORKS AND CONTROL SYSTEMS / 04-01-82 03-31-83	3	21750	1	R01 GM 30054-01	71,679	82
SMOUSE, PETER E / HUMAN GENETICS	MGN		GENETIC DEMOGRAPHY OF TRIBAL POPULATIONS / 03-01-82 02-28-83	1	21400	1	R01 GM 30135-01	70,146	82
TASHIAN, RICHARD E / HUMAN GENETICS	GEN		EVOLUTION OF MAMMALIAN CARBONIC ANHYDRASES / 12-01-81 11-30-82	0	21800	5	R01 GM 24681-05	212,028	82
WARD, PETER A / PATHOLOGY	SAT		THERMAL INJURY, COMPLEMENT, AND LEUKOCYTE DYSFUNCTION / 01-01-82 12-31-82	3	13410	5	R01 GM 28499-02	102,363	82
WARD, PETER A / PATHOLOGY	SAT		LUNG INJURY PRODUCED BY OXYGEN METABOLITES / 07-01-82 06-30-83	4	13410	1	R01 GM 29507-01A1	137,819	82
WEBER, WENDELL W / PHARMACOLOGY	SRC		EXPERIMENTAL AND CLINICAL PHARMACOGENETICS / 01-01-82 12-31-82	2	11700	5	P01 GM 27028-03	298,317	82
WEBER, WENDELL W / PHARMACOLOGY	SRC		EXPERIMENTAL AND CLINICAL PHARMACOGENETICS / 09-01-82 12-31-82	2	11700	3	P01 GM 27028-03S1	9,839	82
WILLIAMS, CHARLES H, JR / BIOLOGICAL CHEMISTRY	BIO		PYRIDINE NUCLEOTIDE-DISULFIDE OXIDOREDUCTASES / 09-01-82 08-31-83	1	22400	5	R01 GM 21444-18	68,148	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN									
ANN ARBOR	UNIVERSITY OF MICHIGAN AT ANN ARBOR								
WILLIAMS, CHARLES H, JR BIOLOGICAL CHEMISTRY	SHARED FACILITY FOR PROTEIN SEQUENCING SSS		01-01-82 12-31-82	0	12900	5	P41 GM 27558-03	14,225	82
WOODARD, RONALD W NONE	STEREOCHEMISTRY OF ACC SYNTHASE AND ACC DEAMINASE BIO		02-01-82 01-31-83	2	22400	1	R01 GM 30097-01	79,104	82
WUTS, PETER G CHEMISTRY	ALLYLBORANES IN THE SYNTHESIS OF IONOMYCIN AND ANALOGS MCHA		07-01-82 06-30-83	0	11910	5	R01 GM 28056-03	75,157	82
** 44 TOTAL								4,651,085	
DETROIT	HENRY FORD HOSPITAL								
HALVORSON, HERBERT R DIV OF BIOCHEMICAL RESEARCH	RELAXATION KINETICS OF SUBUNIT INTERACTIONS BBCB		08-01-81 01-31-83	0	22500	5	R01 GM 23302-06	78,305	81
** 1 TOTAL								78,305	
DETROIT	MICHIGAN CANCER FOUNDATION								
HOROWITZ, SAMUEL B BIOLOGY	REGULATION OF NUCLEAR-CYTOPLASMIC SOLUTE TRANSPORT CP		08-01-82 07-31-83	1	22200	5	R01 GM 19548-11	134,043	82
PAINE, PHILIP L BIOLOGY	MECHANISMS OF NUCLEOCYTOPLASMIC PROTEIN DISTRIBUTION MBY		07-01-82 06-30-83	3	22200	2	R01 GM 26734-04	108,683	82
** 2 TOTAL								242,726	

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN									
DETROIT			WAYNE STATE UNIVERSITY						
BAGSHAW, JOSEPH C BIOCHEMISTRY	MBY		TRANSCRIPTIONAL REGULATION IN EMBRYONIC DEVELOPMENT 09-01-81 08-31-83	0	21700	5	R01 GM 21376-05	70,969	81
BROWN, ELLEN B CHEMISTRY	BBCB		RAMAN SPECTROSCOPIC STUDIES OF MEMBRANE COMPONENTS 09-01-82 08-31-83	0	22300	5	R01 GM 27243-03	18,176	82
BROWN, ELLEN B CHEMISTRY	BBCB		POLAR HEAD GROUP INTERACTIONS AND LIPID PROPERTIES 05-01-82 04-30-83	0	22300	5	R01 GM 27744-03	32,423	82
HARI, V BIOLOGICAL SCIENCES	MBC		STRUCTURE AND REPLICATION OF POTYVIRUSES 09-01-82 08-31-83	3	21200	1	R01 GM 29408-01A1	64,634	82
HONG, FELIX T PHYSIOLOGY	MBY		PHOTOBIOLOGICAL SYSTEMS AND MEMBRANE INTERFACES 12-01-81 11-30-82	0	22300	5	R01 GM 25144-05	64,084	82
KING, ALBERT I BIOENGINEERING CENTER	AFY		STRUCTURAL AND MECHANICAL PROPERTIES OF THE SPINE 07-01-82 06-30-83	0	12320	5	R01 GM 20201-09	90,774	82
LEE, CHUAN-PU BIOCHEMISTRY	BIO		SUBCELLULAR RESPIRATORY FUNCTIONS OF CARDIAC MUSCLE 01-01-81 03-31-83	0	22450	5	R01 GM 22751-05	98,291	81
LIM, EDWARD C CHEMISTRY	BBCA		ELECTRONIC RELAXATION OF DNA BASES 04-01-82 03-31-83	0	21100	5	R01 GM 27767-03	50,394	82
MARNETT, LAWRENCE J CHEMISTRY	BIO		PROSTAGLANDIN SYNTHETASE 01-01-82 12-31-82	0	22400	5	R01 GM 23642-06	73,376	82
NJUS, DAVID L BIOLOGICAL SCIENCES	PB		OXIDATION-REDUCTION REACTIONS IN CHROMAFFIN GRANULES 09-15-82 08-31-83	2	22450	1	R01 GM 30500-01	42,882	82
RABAN, MORTON CHEMISTRY	BMT		CHEMICAL MODELS FOR ACTIVE TRANSPORT OF ALKALI METALS 07-01-82 06-30-83	0	11920	5	R01 GM 28123-03	42,013	82
RIGBY, JAMES H CHEMISTRY	MCHA		TOTAL SYNTHESIS OF SOME CYTOTOXIC GUAIANOLIDES 05-01-82 04-30-83	2	11910	1	R01 GM 30771-01	59,356	82
SIEGEL, ALBERT BIOLOGICAL SCIENCES	VR		MAPPING THE TOBACCO RATTLE VIRUS GENOME 01-01-82 12-31-82	0	21280	5	R01 GM 27064-03	71,132	82
SWANSON, CURTIS J BIOLOGICAL SCIENCES	RNM		LIQUID CRYSTAL THERMOGRAPHY OF CELL HEAT PRODUCTION 07-01-82 06-30-83	0	12400	5	R01 GM 28213-03	19,175	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN										
DETROIT	WAYNE STATE UNIVERSITY									
TSERNOGLOU, DEMETRIUS / BIOCHEMISTRY	X-RAY DIFFRACTION ANALYSIS OF THROMBIN AND NEUROTOXIN	BBCB	02-01-82	01-31-83	1	22550	5	R01 GM 29791-09	74,064	82
** 15 TOTAL									871,743	
EAST LANSING	MICHIGAN STATE UNIVERSITY									
AVERILL, BRUCE A / CHEMISTRY	SYNTHETIC AND PHYSICAL APPROACHES TO METALLOPROTEINS	BMT	01-01-82	12-31-82	1	11920	5	R01 GM 28636-02	63,872	82
BABCOCK, GERALD T / CHEMISTRY	BIOENERGETIC MECHANISMS IN MULTICENTER ENZYMES	BMT	04-01-82	03-31-83	2	22450	2	R01 GM 25480-04	91,722	82
DODGSON, JERRY / BIOCHEMISTRY	ISOLATION AND EXPRESSION OF ERYTHROID-SPECIFIC GENES	GEN	08-01-81	01-31-83	0	21700	5	R01 GM 28836-02	66,605	81
DODGSON, JERRY B / MICROBIOLOGY AND PUBLIC HEALTH	HISTONE GENE ORGANIZATION AND EXPRESSION IN DEVELOPMENT	GEN	09-01-82	08-31-83	2	21700	1	R01 GM 29687-01	62,492	82
DODGSON, JERRY B / MICROBIOLOGY AND PUBLIC HEALTH	CONTROL OF GENE EXPRESSION IN AVIAN ERYTHROPOIESIS	GEN	08-01-82	07-31-83	0	21750	5	R01 GM 28837-03	81,267	82
ENKE, CHRISTIE G / CHEMISTRY	STRUCTURE DETERMINATION BY TRIPLE QUAD MASS SPECTROMETRY	SSS	07-01-82	06-30-83	0	12840	5	R01 GM 28254-03	64,995	82
FERGUSON-MILLER, SHELAGH M / BIOCHEMISTRY	ORGANIZATION AND CONTROL OF ELECTRON TRANSFER CHAINS	PB	07-01-82	06-30-83	4	22450	2	R01 GM 26916-04	90,364	82
GARDINER, JOSEPH C / STATISTICS	STOPPING RULES IN COMPETING RISK ANALYSES	SSS	07-01-82	06-30-83	0	13901	5	R01 GM 28030-03	10,650	82
HART, HAROLD / CHEMISTRY	STUDIES IN ORGANIC SYNTHESES	MCHA	06-01-82	05-31-83	1	11940	5	R01 GM 15997-13	70,957	82
KENDE, HANS J / MSU/DOE PLANT RESEARCH LAB	SITE OF ACTION OF CYTOKININS	CP	07-01-82	06-30-83	1	22200	1	R01 GM 31373-01	41,231	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN								
EAST LANSING		MICHIGAN STATE UNIVERSITY						
MC GRATH, JOHN J ENGINEERING SCIENCE	CBY	OSMOSIS AND FREEZING IN LARGE UNILAMELLAR LIPOSOMES 08-01-82 07-31-83	2	12930	1	R01 GM 31202-01	91,706	82
MELA, LEENA M PHYSIOLOGY	SAT	INTRACELLULAR CHANGES INDUCED BY SHOCK AND TRAUMA 09-01-82 08-31-83	2	13420	5	R01 GM 28889-03	146,572	82
REVZIN, ARNOLD BIOCHEMISTRY	BBCA	REGULATORY PROTEIN-DNA INTERACTIONS--PHYSICAL STUDIES 01-01-82 12-31-82	2	21750	2	R01 GM 25498-04	89,484	82
SCHINDLER, MELVIN S BIOCHEMISTRY	BBCA	BIODYNAMICS OF NUCLEAR MEMBRANE AND MATRIX 01-01-82 12-31-82	2	22300	1	R01 GM 30158-01	79,172	82
SCHINDLER, MELVIN S BIOCHEMISTRY	MBC	LATERAL MOBILITY IN THE OUTER MEMBRANE OF BACTERIA 08-01-82 07-31-83	2	22300	1	R01 GM 31707-01	70,490	82
SNYDER, LOREN R MICROBIOLOGY AND PUBLIC HEALTH	MG	INTRACELLULAR DNA STRUCTURES AND TRANSCRIPTION 08-01-82 07-31-83	0	21280	5	R01 GM 28001-03	94,242	82
SUELTER, CLARENCE H BIOCHEMISTRY	BIO	COMPARATIVE ENZYMOLOGY OF NORMAL AND ABNORMAL TISSUE 06-01-82 05-31-83	1	22400	5	R01 GM 20716-09	63,725	82
TIEN, H TI BIOPHYSICS	BBCB	BILAYER LIPID MEMBRANES IN AQUEOUS MEDIA 09-01-82 08-31-83	1	22300	5	R01 GM 14971-17	126,175	82
TULINSKY, ALEXANDER CHEMISTRY	BBCB	CRYSTAL-SOLUTION STUDY OF CATALYTICALLY ACTIVE ALDOLASE 05-01-82 04-30-83	2	22550	2	R01 GM 26360-04	144,998	82
TULINSKY, ALEXANDER CHEMISTRY	BBCB	ASYMMETRY, STRUCTURE AND FUNCTION OF A-CHYMOTRYPSIN 12-01-81 11-30-82	2	22550	2	R01 GM 21225-07	182,590	82
WANG, JOHN L BIOCHEMISTRY	CP	MOLECULAR ANALYSIS OF GROWTH REGULATORY FACTOR 02-01-82 01-31-83	1	22200	5	R01 GM 27203-02	62,747	82
WATSON, JACK T BIOCHEMISTRY	SSS	BIOCHEMICAL APPLICATIONS OF MASS SPECTROMETRY 08-01-82 07-31-83	0	11770	5	R01 GM 28921-03	55,238	82
							1,851,294	
** 22 TOTAL								

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MICHIGAN									
MIDLAND	MICHIGAN MOLECULAR INSTITUTE								
BROWN, LARRY R	STRUCTURE & DYNAMICS OF PROTEIN-LIPID COMPLEXES BY NMR								
BIOMEDICAL SCIENCES	BBCB		05-01-82 04-30-83	2	22500	1	R01 GM 30556-01	86,202	82
** 1 TOTAL								86,202	
*** 0 *CENTERS								0	
*** 85 NONCENTER								7,781,355	
*** 85 TOTAL								7,781,355	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MINNESOTA									
MINNEAPOLIS	UNIVERSITY OF MINNESOTA OF MNPLS-ST PAUL								
ADOLPH, KENNETH W	NONHISTONE PROTEINS AND HELA CHROMOSOME STRUCTURE								
BIOCHEMISTRY	MBY		08-01-81 01-31-83	0	21600	5	R01 GM 26440-03	55,907	81
ANDERSON, PAUL M	CYNATE--REACTION WITH CYANASE & AMIDOTRANSFERASE								
BIOCHEMISTRY	BIO		04-01-82 03-31-84	0	22400	5	R01 GM 22434-06	41,412	82
BARANY, GEORGE	NEW MILD PROTECTION STRATEGIES FOR PEPTIDE SYNTHESIS								
CHEMISTRY	MCHA		04-01-82 03-31-83	1	11440	5	R01 GM 28934-02	80,837	82
BLOOMFIELD, VICTOR A	POLYAMINE-POLYNUCLEOTIDE INTERACTIONS								
BIOCHEMISTRY	BBCA		07-01-82 06-30-83	1	21100	5	R01 GM 28093-03	60,308	82
BLOOMFIELD, VICTOR A	PHYSICAL CHEMISTRY OF BACTERIAL VIRUSES								
BIOCHEMISTRY	BBCA		06-01-82 05-31-83	4	22500	2	R01 GM 17855-12	147,393	82
BLUMENFELD, MARTIN S	AN UNUSUAL NUCLEOSOMAL PROTEIN OF DROSOPHILA								
GENETICS AND CELL BIOLOGY	GEN		04-01-82 03-31-83	1	21600	5	R01 GM 29119-02	83,752	82
BLUMENFELD, MARTIN S	SATELLITE DNA AND MOLECULAR ORGANIZATION OF CHROMOSOMES								
GENETICS AND CELL BIOLOGY	GEN		01-01-82 12-31-82	1	21600	5	R01 GM 22138-08	101,755	82
BODLEY, JAMES W	AMINO ACID X--STRUCTURE/DISTR/BIOSYNTHESIS/FUNCTION								
BIOCHEMISTRY	PC		07-01-82 06-30-83	4	21320	2	R01 GM 26832-04	88,226	82
BODLEY, JAMES W	GUANINE NUCLEOTIDES AND PROTEIN CHAIN GROWTH								
BIOCHEMISTRY	PC		01-01-82 12-31-82	0	21320	5	R01 GM 21359-07	90,075	82
BRAMBL, ROBERT M	MITOCHONDRIAL BIOGENESIS AND FUNGAL SPORE GERMINATION								
PLANT PATHOLOGY AND PHYSIOLOGY	MBC		06-01-82 05-31-83	0	21280	5	R01 GM 19398-09	58,543	82
BRYANT, ROBERT G	ALKALINE EARTH ION NUCLEAR MAGNETIC RESONANCE								
CHEMISTRY	BMT		08-01-82 07-31-83	1	11920	5	R01 GM 25757-05	100,315	82
BRYANT, ROBERT G	BIOPHYSICAL DYNAMICS: MAGNETIC RESONANCE APPROACHES								
CHEMISTRY	BBCB		07-01-82 06-30-83	3	22500	5	R01 GM 29428-02	105,371	82
DALE, RODERIC	ORGANIZATION & EXPRESSION OF TOBACCO MITOCHONDRIAL GENOM								
BIOCHEMISTRY	MBY		09-28-82 08-31-83	2	21280	1	R01 GM 32113-01	98,199	82
DWORKIN, MARTIN	CELL INTERACTIONS AND DEVELOPMENT IN MYXOCOCCUS XANTHUS								
MICROBIOLOGY	MBC		06-01-82 05-31-83	3	22200	5	R01 GM 19957-10	88,626	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MINNESOTA									
MINNEAPOLIS	UNIVERSITY OF MINNESOTA OF MNPLS-ST PAUL								
ENFIELD, FRANKLIN D GENETICS AND CELL BIOLOGY	INVESTIGATIONS IN QUANTITATIVE GENETICS GEN		12-01-81 08-31-83	0	21800	5	R01 GM 16074-14	76,160	82
FAN, DAVID P GENETICS AND CELL BIOLOGY	CELL GROWTH AND DIVISION MBC		01-01-81 12-31-82	0	22300	5	R01 GM 19483-12	101,937	81
FISHER, JED F CHEMISTRY	CHEMICAL MECHANISMS OF REDUCTIVE METABOLISM PB		07-01-82 06-30-83	0	22400	5	R01 GM 28339-03	50,325	82
FUCHS, JAMES A BIOCHEMISTRY	DEOXYRIBONUCLEOTIDE METABOLISM IN ESCHERICHIA COLI MG		09-01-82 08-31-83	0	22400	5	R01 GM 20884-09	88,271	82
GANDER, JOHN E BIOCHEMISTRY	FUNGAL GLYCOPEPTIDE BIOSYNTHESIS MBC		09-01-82 08-31-83	4	22410	2	R01 GM 19978-09	103,102	82
GASSMAN, PAUL G CHEMISTRY	STEREOSPECIFIC FUNCTIONALIZATION OF AROMATIC AMINES MCHA		12-01-81 11-30-82	1	11940	2	R01 GM 22346-06	51,125	82
GEISSER, SEYMOUR SCHOOL OF STATISTICS	SAMPLE REUSE AND PREDICTIVE METHODS SSS		08-01-82 07-31-83	1	12100	5	R01 GM 25271-05	60,878	82
GOLDBERG, NELSON D PHARMACOLOGY	KREBS CYCLE AND CYCLIC NUCLEOTIDE CONTROL SSS		08-01-82 07-31-83	1	22400	5	R01 GM 28818-17	203,887	82
GUILFOYLE, THOMAS J BOTANY	REGULATION OF RNA POLYMERASES DURING DEVELOPMENT CTY		08-01-82 07-31-83	1	21700	5	R01 GM 24096-06	68,729	82
HERMAN, ROBERT K GENETICS AND CELL BIOLOGY	DEVELOPMENTAL GENETICS OF CAENORHABDITIS ELEGANS SSS		03-01-82 02-28-83	4	21700	2	R01 GM 22387-07	75,127	82
HOGENKAMP, HENRICUS P BIOCHEMISTRY	STRUCTURE AND REACTIONS OF THE COBAMIDE COENZYMES BIO		09-01-82 08-31-83	0	11920	5	R01 GM 23773-07	116,574	82
HOLTZMAN, JORDAN L PHARMACOLOGY	CYTOCHROME-REDUCTASE ACTIVATION IN HYDROXYLATION PHRA		08-01-82 07-31-83	0	11760	5	R01 GM 21310-08	78,497	82
HOYE, THOMAS R CHEMISTRY	ANTIBIOTIC SYNTHESIS MCHA		02-01-82 01-31-83	2	11910	1	R01 GM 29077-01A1	64,046	82
JENDRISAK, JEROME J BOTANY	REGULATION OF EUKARYOTIC GENE TRANSCRIPTION BIO		08-01-81 12-31-82	0	21750	5	R01 GM 24294-05	60,278	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MINNESOTA										
MINNEAPOLIS	UNIVERSITY OF MINNESOTA OF MNPLS-ST PAUL									
KIRKWOOD, SAMUEL	USE OF ENZYMES IN STRUCTURAL CARBOHYDRATE CHEMISTRY									
BIOCHEMISTRY	BIO		04-01-82 03-31-83	2	22400	5	R01 GM	09293-20	61,764	82
LEETE, EDWARD	METABOLISM OF NATURAL PRODUCTS OF MEDICINAL INTEREST									
CHEMISTRY	MCHA		01-01-82 12-31-82	1	11910	5	R01 GM	13246-25	93,299	82
LEETE, EDWARD	METABOLISM OF NATURAL PRODUCTS OF MEDICINAL INTEREST									
CHEMISTRY	BNP		05-01-82 12-31-82	0	11910	3	R01 GM	13246-25S1	27,000	82
LEVITT, DAVID G	BEHAVIOR AND EXISTENCE OF CELL MEMBRANE PORES									
PHYSIOLOGY	PHY		07-01-82 06-30-83	2	22300	2	R01 GM	25938-04A1	71,743	82
LIPSCOMB, JOHN D	OXYGENASE ENZYME MECHANISM									
BIOCHEMISTRY	PB		01-01-82 12-31-82	1	22400	5	R01 GM	24689-05	72,825	82
LIVINGSTON, DENNIS M	BIOCHEMISTRY OF GENETIC RECOMBINATION IN YEAST									
BIOCHEMISTRY	GEN		02-01-82 01-31-83	1	21200	5	R01 GM	28709-02	61,539	82
MANNERING, GILBERT J	EFFECTS OF INTERFERON ON DRUG METABOLIZING SYSTEMS									
PHARMACOLOGY	PHRA		09-01-82 08-31-83	1	11780	5	R01 GM	28171-02	87,880	82
MANNERING, GILBERT J	FUNCTIONS OF P-450-LINKED DRUG-METABOLIZING SYSTEMS									
PHARMACOLOGY	PHRA		09-01-82 08-31-83	0	11760	5	R01 GM	27780-03	164,675	82
MUNCK, ECKARD	STUDIES OF O2 ACTIVATION BY MOSSBAUER SPECTROSCOPY									
FRESHWATER BIOLOGICAL RES INST	BBCB		03-01-82 02-28-83	3	22500	5	R01 GM	22701-07	65,208	82
NEUMAN, RONALD D	LASER LIGHT-SCATTERING STUDIES OF LIPID MONOLAYERS									
FOREST PRODUCTS	BBCB		02-01-81 01-31-83	0	22300	1	R01 GM	28438-01	12,454	81
RUBENSTEIN, IRWIN	MOLECULAR ORGANIZATION OF THE ZEIN MULTIGENE FAMILY									
GENETICS AND CELL BIOLOGY	GEN		08-01-82 07-31-83	3	21700	5	R01 GM	24756-05	98,245	82
SAUERBIER, WALTER	TRANSCRIPTION OF UV-IRRADIATED DNA AND CHROMATIN									
GENETICS AND CELL BIOLOGY	CTY		08-01-82 07-31-83	2	21600	1	R01 GM	30319-01A1	97,239	82
SILFLOW, CAROLYN D	CHARACTERIZATION AND EXPRESSION OF TUBULIN GENES									
GENETICS AND CELL BIOLOGY	MBY		07-01-82 06-30-83	2	21750	1	R01 GM	31159-01	79,601	82
SNUSTAD, D PETER	GENETICS OF VIRUS-INDUCED SHUTOFF OF HOST METABOLISM									
GENETICS AND CELL BIOLOGY	MG		04-01-82 03-31-83	2	21750	2	R01 GM	25417-04	84,499	82

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
MINNESOTA									
MINNEAPOLIS	UNIVERSITY OF MINNESOTA OF MNPLS-ST PAUL								
STANKOVICH, MARIAN T	A SPECTROELECTROCHEMICAL STUDY OF SELECTED FLAVOPROTEINS								
CHEMISTRY	PB	07-01-82	06-30-83	1	22450	5 R01 GM	29344-02	56,112	82
THOMAS, DAVID D	BIOPHYSICAL STUDIES OF MEMBRANE MOLECULAR DYNAMICS								
BIOCHEMISTRY	BBCB	04-01-82	03-31-83	0	22300	5 R01 GM	27906-03	54,298	82
WITKOP, CARL J, JR	ALBINISM								
ORAL PATHOLOGY	SSS	09-01-82	08-31-83	0	21400	5 P01 GM	22167-08	222,803	82
WOODWARD, CLARE K	SINGLE PROTON EXCHANGE KINETICS IN PROTEINS								
BIOCHEMISTRY	BBCA	04-01-82	03-31-83	2	22500	2 R01 GM	26242-04	65,579	82
XAVIER, ANTONIO V	STRUCTURE AND FUNCTION OF PROTEINS IN SULFATE REDUCTION								
FRESHWATER BIOLOGICAL RES INST	BMT	04-01-81	09-30-82	0	22450	5 R01 GM	25879-03	59,905	81
** 46 TOTAL								3,946,323	
ROCHESTER	MAYO FOUNDATION								
GETZ, MICHAEL J	REGULATION OF MRNA ABUNDANCE								
CELL BIOLOGY	MBY	04-01-82	03-31-83	2	21600	2 R01 GM	25510-04	123,220	82
GRONERT, GERALD A	METABOLIC EFFECTS OF ANESTHESIA AND SURGERY								
ANESTHESIOLOGY	SAT	12-01-81	11-30-82	2	13200	5 R01 GM	21729-23	124,979	82
KLINE, BRUCE C	GENETICS OF PLASMID REPLICATION AND INCOMPATIBILITY								
CELL BIOLOGY	MG	12-01-81	11-30-82	2	21200	2 R01 GM	25604-04	88,304	82
LIARAKOS, CHARLES D	STRUCTURE OF ESTROGEN INDUCED HEN OVIDUCT MESSENGER RNAS								
CELL BIOLOGY	MBY	09-01-82	08-31-83	1	21320	5 R01 GM	29532-02	75,617	82
PENNISTON, JOHN T	PURIFICATION AND PROPERTIES OF CA2+ PUMPING ATPASE								
CELL BIOLOGY	PB	08-01-82	07-31-83	2	22300	5 R01 GM	28835-03	89,476	82
POWIS, GARTH	ROLE OF CYTOCHROME P-450 IN DRUG REDUCTION								
ONCOLOGY	PHRA	12-01-81	11-30-82	0	11860	5 R01 GM	27590-03	106,705	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MINNESOTA										
ROCHESTER	MAYO FOUNDATION									
PRENDERGAST, FRANKLIN G	BIOCHEMISTRY OF BIOLUMINESCENCE IN AEQUORIN									
	PB		07-01-82 06-30-83	2	22500	1	R01 GM	30178-01A1	51,642	82
PRENDEPGAST, FRANKLYN G PHARMACOLOGY	BIOPHYSICAL MECHANISMS IN MELITTIN INDUCED CYTOLYSIS									
	BBCB		07-01-82 06-30-83	2	22500	1	R01 GM	31241-01	75,677	82
REINHART, GREGORY D CELL BIOLOGY	MECHANISM OF ALLOSTERIC INFLUENCE ON ENZYME ACTIVITY									
	BIO	1	08-01-82 07-31-83	2	22400	1	R01 GM	30884-01	62,519	82
TINKER, JOHN H ANESTHESIOLOGY	ORGAN PROTECTION: ROLE OF ANESTHETICS									
	SAT		01-01-82 12-31-82	1	13200	5	R01 GM	24531-05	118,023	82
VAN DYKE, RUSSELL A ANESTHESIOLOGY	METABOLISM OF VOLATILE ANESTHETICS									
	SAT		09-01-81 03-31-83	0	13200	5	R01 GM	17158-11	113,076	81
WEINSHILBOUM, RICHARD M PHARMACOLOGY	INHERITED VARIATIONS IN DRUG METABOLIZING ENZYMES									
	PHRA		07-01-82 06-30-83	2	11780	5	R01 GM	28157-03	95,530	82
** 12 TOTAL									1,124,768	
*** 0 *CENTERS									0	
*** 58 NONCENTER									5,071,091	
*** 58 TOTAL									5,071,091	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MISSISSIPPI								
JACKSON	UNIVERSITY OF MISSISSIPPI MEDICAL CENTER							
CASE, STEVEN T BIOCHEMISTRY	THE ORGANIZATION AND EXPRESSION OF CHROMOMERES MBY	04-01-81 12-31-82	0	21600	5	R01 GM 26362-03	66,213	81
OLSON, MARK O BIOCHEMISTRY	NUCLEOLAR NONRIBOSOMAL, NONHISTONE PROTEINS CTY	07-01-82 06-30-83	0	21600	5	R01 GM 28349-03	91,295	82
SLOBIN, LAWRENCE I BIOCHEMISTRY	CONTROL OF POLYPEPTIDE CHAIN ELONGATION IN EUCARYOTES PC	07-01-82 06-30-83	4	21320	2	R01 GM 25434-04A1	82,955	82
WAHBA, ALBERT J BIOCHEMISTRY	PROTEIN SYNTHESIS IN PROKARYOTES AND EUKARYOTES BIO	09-01-80 08-31-83	0	21320	5	R01 GM 25451-03	61,954	80
** 4 TOTAL							302,417	
MISSISSIPPI STAT	MISSISSIPPI STATE UNIVERSITY							
WISE, DWAYNE A BIOLOGICAL SCIENCES	CONTROL OF CHROMOSOME DISTRIBUTION AT MEIOSIS CBY	12-01-81 11-30-82	1	22250	5	R01 GM 28660-02	39,547	82
** 1 TOTAL							39,547	
*** 0 *CENTERS							0	
*** 5 NONCENTER							341,964	
*** 5 TOTAL							341,964	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MISSOURI									
COLUMBIA	UNIVERSITY OF MISSOURI COLUMBIA								
AGRIS, PAUL F	TRANSFER RNA STRUCTURE DURING PROTEIN SYNTHESIS								
BIOLOGICAL SCIENCES	BBCA	04-01-82 03-31-83	0	21320	5	R01 GM	23037-05	49,066	82
DAVID, JOHN D	ROLE OF CELL SURFACE PROTEINS IN MYOGENESIS								
BIOLOGICAL SCIENCES	CTY	12-01-81 11-30-82	1	22200	5	R01 GM	28657-02	54,014	82
FRANKLIN, DEAN	ULTRASONIC INSTRUMENTATION DEVELOPMENT								
DALTON RESEARCH CENTER	RNM	04-01-82 03-31-83	1	12910	5	R01 GM	29153-02	84,739	82
HEWETT, JOHN E	COMPARING GROUPS WHEN RANDOMIZATION IS NOT POSSIBLE								
STATISTICS	SSS	09-29-81 12-31-82	0	12100	1	R01 GM	29333-01	20,558	81
LEWIS, JAMES A	MUTANTS OF AN APPARENT ACETYLCHOLINE RECEPTOR								
BIOLOGICAL SCIENCES	GEN	07-01-82 06-30-83	2	11770	1	R01 GM	31659-01	47,465	82
SCHMIDT, FRANCIS J	GENE STRUCTURE OF AN RNA PROCESSING ENZYME								
BIOCHEMISTRY	MBC	04-01-82 03-31-83	0	21750	5	R01 GM	26756-03	44,794	82
SHERMAN, LOUIS A	PHOTOSYNTHESIS, MUTANTS AND CLONING IN CYANOBACTERIA								
BIOLOGICAL SCIENCES	MBC	05-01-82 04-30-83	1	22450	5	R01 GM	21827-08	92,912	82
WANG, RICHARD J	MITOSIS AND MITOTIC ARREST IN MAMMALIAN CELLS								
DALTON RESEARCH CENTER	MGN	06-01-82 05-31-83	0	21600	5	R01 GM	21305-08	87,167	82
** 8 TOTAL								480,715	
KIRKSVILLE	KIRKSVILLE COLLEGE OF OSTEOPATHIC MED								
BOND, GUY H	CONTROL OF NA, K-ATPASE BY VANADATE, MG, K, NA, & ATP								
PHYSIOLOGY	PB	09-01-82 08-31-83	0	22400	5	R01 GM	28164-03	33,462	82
** 1 TOTAL								33,462	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MISSOURI										
SAINT LOUIS			JEWISH HOSPITAL OF ST. LOUIS							
BERGER, NATHAN A			POLY(ADPR) IN GENETIC DISORDERS OF DNA REPAIR							
MEDICINE	MGN		04-01-82 03-31-83	4	21400	2	R01 GM	26463-04	190,402	82
** 1 TOTAL									190,402	
SAINT LOUIS			ST. LOUIS UNIVERSITY							
DUS, KARL M			COMPARATIVE STRUCTURAL STUDIES OF P-450 HEMEPROTEINS							
BIOCHEMISTRY	BIO		01-01-82 03-31-83	0	22500	5	R01 GM	21726-07	78,230	82
GREEN, MICHAEL			NASCENT PROTEIN PROCESSING BY ENDOPLASMIC RETICULUM							
MICROBIOLOGY	MBY		09-01-82 08-31-83	0	22300	5	R01 GM	28194-03	98,883	82
HIRSCHBERG, CARLOS B			GLYCOSYLATION MECHANISMS OF CELL LIPIDS AND PROTEINS							
BIOCHEMISTRY	MBY		08-01-82 07-31-83	3	22410	5	R01 GM	30365-08	113,087	82
KLEIN, CLAUDETTE			BIOGENESIS OF A CHEMOTACTIC SYSTEM IN D. DISCOIDEUM							
BIOCHEMISTRY	CP		09-01-82 08-31-83	1	22200	5	R01 GM	25080-05	110,363	82
KLEIN, CLAUDETTE			PROCESSING OF THE CHEMOTACTIC SIGNAL IN D DISCOIDEUM							
BIOCHEMISTRY	MBY		08-01-81 12-31-82	0	22300	5	R01 GM	26349-03	62,710	81
LAMBOWITZ, ALAN M			BIOGENESIS OF MITOCHONDRIA IN NEUROSPORA							
BIOCHEMISTRY	MBY		07-01-82 06-30-83	2	21280	5	R01 GM	23961-06	83,362	82
LIU, MAW-SHUNG			HEPATIC GLUCOSE METABOLISM IN SHOCK							
PHYSIOLOGY	SAT		07-01-82 [illegible]-31-83	0	13420	7	R01 GM	31664-01	79,775	82
MARRS, BARRY L			THE REGULATION OF BACTERIAL MEMBRANE FORMATION							
BIOCHEMISTRY	MG		08-01-82 07-31-83	3	21750	5	R01 GM	20173-10	134,742	82
WOLD, WILLIAM S			ADENOVIRUS EXPRESSION VECTOR							
INST FOR MOLECULAR VIROLOGY	VR		08-01-82 07-31-83	2	21750	1	R01 GM	31276-01	63,437	82
** 9 TOTAL									824,589	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
MISSOURI								
SAINT LOUIS	WASHINGTON UNIVERSITY							
ACKERMAN, JOSEPH J CHEMISTRY	SURFACE COIL NMR BIOCHEMISTRY OF IN VIVO TISSUE SSS	06-01-82 05-31-83	2	12840	1	R01 GM 30331-01	216,186	82
APIRION, DAVID MICROBIOLOGY AND IMMUNOLOGY	GENETICS AND BIOCHMEISTRY OF RNA PROCESSING IN E COLI SSS	12-01-81 11-30-82	2	21320	2	R01 GM 19821-07	228,774	82
BANASZAK, LEONARD J BIOLOGICAL CHEMISTRY	STRUCTURAL STUDIES OF DEHYDROGENASES AND LIPOPROTEINS BBCB	08-01-82 07-31-83	2	22550	2	R01 GM 13925-17	181,762	82
BARNES, WAYNE M BIOLOGICAL CHEMISTRY	HISTIDINE OPERON: GENETIC CONTROL AND DNA SEQUENCE MG	01-01-82 12-31-82	3	21750	5	R01 GM 24956-05	113,887	82
BERG, DOUGLAS E BIOLOGICAL CHEMISTRY	INITIATION OF DNA REPLICATION IN VITRO PC	04-01-81 03-31-83	0	21200	5	R01 GM 26333-03	87,612	81
DYKHUIZEN, DANIEL E GENETICS	GENETIC BASIS OF SELECTION IN NATURAL POPULATIONS GEN	09-01-82 08-31-83	3	21800	5	R01 GM 30201-02	138,634	82
ELGIN, SARAH C BIOLOGY	NONHISTONE CHROMOSOMAL PROTEINS OF DROSOPHILA GEN	07-01-82 06-30-83	3	21600	5	R01 GM 30273-02	186,840	82
ELSON, ELLIOT L BIOLOGICAL CHEMISTRY	BIOPHYSICAL STUDIES OF CELL DEFORMABILITY MBY	12-01-81 11-30-82	1	22300	5	R01 GM 27160-03	117,174	82
ELSON, ELLIOT L BIOLOGICAL CHEMISTRY	BIOPHYSICAL STUDIES OF CELL SURFACE INTERACTIONS MBY	02-01-82 01-31-83	2	22300	1,	R01 GM 30299-01	106,254	82
GLASER, LUIS BIOLOGICAL CHEMISTRY	MEMBRANE PROPERTIES, INTERACTIONS DURING DIFFERENTIATION SSS	08-01-82 07-31-83	0	22300	5	P01 GM 28002-03	124,865	82
GLASER, LUIS BIOLOGICAL CHEMISTRY	REGULATION AND MECHANISM OF CELL SURFACE SYNTHESIS PBC	05-01-82 04-30-83	1	22300	5	R01 GM 18405-11	158,872	82
GOODENOUGH, URSULA W BIOLOGY	FLAGELLAR MEMBRANE ADHESION AND SEXUAL SIGNALING CP	04-01-82 03-31-83	4	22200	2	R01 GM 26150-04	160,610	82
GOODENOUGH, URSULA W BIOLOGY	FERTILIZATION MECHANISMS IN CHLAMYDOMONAS CTY	07-01-82 06-30-83	2	22200	1	R01 GM 30982-01	58,725	82
GRANT, GREGORY A INTERNAL MEDICINE	STRUCTURE AND FUNCTION IN ALLOSTERIC REGULATION PC	02-01-82 01-31-83	1	22400	5	R01 GM 27784-02	69,800	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MISSOURI									
SAINT LOUIS	WASHINGTON UNIVERSITY								
GUTSCHE, C DAVID CHEMISTRY	CALIXARENES AS ENZYME MODELS SSS	01-01-82 12-31-82	0	11920	5	R01 GM	23534-06	75,874	82
HEUSER, JOHN E PHYSIOLOGY AND BIOPHYSICS	3-D VISUALIZATION OF MEMBRANE CIRCULATION SSS	12-01-81 11-30-82	2	12930	1	R01 GM	29647-01	261,494	82
HOLTZER, ALFRED M CHEMISTRY	PROPERTIES OF ALPHA-HELIX-FORMING SUBSTANCES BBCB	03-01-82 02-28-83	3	22500	2	R01 GM	20064-08	64,589	82
HUNTER, F EDMUND, JR PHARMACOLOGY	GSH-SPECIFIC ENZYMES ON ORGANONITRATES, PROSTAGLANDINS BIO	01-01-82 12-31-82	0	22400	5	R01 GM	24561-05	61,225	82
JOHNSON, GEORGE B BIOLOGY	STUDIES OF HIDDEN ELECTROPHORETIC VARIATION GEN	09-15-82 08-31-83	2	21800	2	R01 GM	23504-06	111,115	82
KIRK, DAVID L BIOLOGY	ANALYSIS OF CONTROL GENE ACTION IN VOLVOX DEVELOPMENT CBY	01-01-82 12-31-82	0	21320	5	R01 GM	27215-03	96,627	82
KIRK, DAVID L BIOLOGY	GENETIC CONTROL OF MORPHOGENESIS IN VOLVOX CBY	08-01-82 07-31-83	0	22200	5	R01 GM	24172-06	89,968	82
MARSHALL, GARLAND R PHYSIOLOGY AND BIOPHYSICS	COMPUTER-AIDED DRUG DESIGN PTR	12-01-81 11-30-82	2	11900	2	P01 GM	24483-04	509,826	82
MATHEWS, F SCOTT PHYSIOLOGY AND BIOPHYSICS	STRUCTURAL STUDIES OF CYTOCHROMES B562 AND B2 BBCB	08-01-82 07-31-83	1	22550	5	R01 GM	20530-10	120,652	82
OLSON, MAYNARD V GENETICS	YEAST TRNA GENES GEN	04-01-82 03-31-83	0	21750	5	R01 GM	27889-03	73,205	82
OLSON, MAYNARD V GENETICS	PHYSICAL MAPPING OF YEAST CHROMOSOMAL DNA GEN	08-01-82 07-31-83	2	21600	5	R01 GM	28232-03	114,293	82
RAO, DABEERU C PREV MED AND PUBLIC HEALTH	PATH ANALYSIS OF FAMILY RESEMBLANCE MGN	07-01-82 06-30-83	2	21400	5	R01 GM	28719-03	103,831	82
SCHLESINGER, MILTON J MICROBIOLOGY AND IMMUNOLOGY	FUNCTION AND REGULATION OF "HEAT-SHOCK" PROTEINS MBY	07-01-82 06-30-83	0	21750	5	R01 GM	28303-03	97,038	82
SCHLESSINGER, DAVID MICROBIOLOGY AND IMMUNOLOGY	PROCESSING & TURNOVER OF MAMMALIAN CELL RIBOSOMAL RNA MBY	12-01-81 11-30-82	3	21320	5	R01 GM	21357-08	112,635	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MISSOURI											
SAINT LOUIS	WASHINGTON UNIVERSITY										
SILBERT, DAVID F BIOLOGICAL CHEMISTRY	MEMBRANE LIPIDS-INTERACTIONS AND CONTROL OF BIOSYNTHESIS CTY		02-01-82	01-31-83	3	22300	1	R01 GM	30244-01	136,324	82
SLY, WILLIAM S PEDIATRICS	ENZYME THERAPY IN LYSOSOMAL STORAGE DISEASES SSS		06-01-82	05-31-83	0	21400	5	P01 GM	21096-08	478,952	82
SUAREZ, BRIAN K PSYCHIATRY	GENETIC TRANSMISSION OF VARIANT ANTITRYPSIN ALLELES MGN		07-01-81	06-30-83	0	21400	5	R01 GM	28067-02	87,369	81
TEMPLETON, ALAN R BIOLOGY	SELECTION, COADAPTATION AND SPECIATION IN DROSOPHILA GEN		07-01-82	06-30-83	0	21800	5	R01 GM	27021-03	50,003	82
WATERSTON, ROBERT H GENETICS	MOLECULAR GENETICS OF MUSCLE ASSEMBLY IN C. ELEGANS CTY		04-01-82	03-31-83	2	22250	5	R01 GM	23883-06	99,335	82
WILLIAMS, LUTHER S BIOLOGY	REGULATIONS OF AMINOACYL-TRNA SYNTHETASE FORMATION BIO		04-01-82	03-31-83	4	21310	2	R01 GM	29200-02A1	123,719	82
YOKOYAMA, SHOZO PSYCHIATRY	POPULATION GENETICS OF DELETERIOUS GENES MGN		01-01-82	12-31-82	1	21800	5	R01 GM	28672-02	40,719	82
** 35 TOTAL										4,858,788	
SPRINGFIELD	DRURY COLLEGE										
ROY, RABINDRA N CHEMISTRY	PH MEASUREMENT STANDARDS OF BLOOD IN ISOTONIC SALINE BMT		07-01-82	06-30-83	2	12820	2	R01 GM	26809-04	15,317	82
** 1 TOTAL										15,317	
*** 0 *CENTERS										0	
*** 55 NONCENTER										6,403,273	
*** 55 TOTAL										6,403,273	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
MONTANA										
MISSOULA	UNIVERSITY OF MONTANA									
GUSTAFSON, GARY L	CONTROL OF INTRACELLULAR PROTEINASE COMPARTMENTATION									
MICROBIOLOGY	CBY		01-01-82 12-31-82	2	22300	1	R01 GM	30219-01	79,013	82
HILL, WALTER E	PHYSICAL STUDIES OF RIBOSOMAL PROTEINS									
CHEMISTRY	BBCA		01-01-82 12-31-82	0	21320	5	R01 GM	27201-03	75,908	82
** 2 TOTAL									154,921	
*** 0 *CENTERS									0	
*** 2 NONCENTER									154,921	
*** 2 TOTAL									154,921	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEBRASKA									
LINCOLN	UNIVERSITY OF NEBRASKA LINCOLN								
BAUMGARTEN, HENRY E CHEMISTRY	CHEMICAL AND ELECTROCHEMICAL OXIDATION STUDIES MCHA		06-01-82 05-31-83	2	11920	5	R01 GM 27694-03	75,316	82
BRUMBAUGH, JOHN A SCHOOL OF LIFE SCIENCES	MECHANISMS MEDIATING MELANOGENIC CONTROL GENE EFFECTS GEN		05-01-82 04-30-83	0	21700	5	R01 GM 18969-11	92,005	82
FUNK, RAYMOND L CHEMISTRY	NEW CYCLIZATION METHODS FOR NATURAL PRODUCT SYNTHESIS BNP		12-01-81 11-30-82	2	11910	5	R01 GM 28663-02	66,795	82
GUPTA, NABA K CHEMISTRY	GENETIC CODE, PROTEIN SYNTHESIS IN MAMMALIAN SYSTEMS BIO		12-01-81 11-30-82	0	21320	5	R01 GM 18796-11	69,767	82
GUPTA, NABA K CHEMISTRY	PROTEIN SYNTHESIS INITIATION IN RED BLOOD CELLS BIO		05-01-82 04-30-83	3	21320	5	R01 GM 22079-08	89,983	82
SCHWARTZBACH, STEVEN D SCHOOL OF LIFE SCIENCES	REGULATION OF ORGANELLE BIOGENESIS BIO		08-01-81 01-31-83	0	21280	5	R01 GM 26994-03	45,707	81
** 6 TOTAL								439,573	
*** 0 *CENTERS								0	
*** 6 NONCENTER								439,573	
*** 6 TOTAL								439,573	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEVADA									
RENO	UNIVERSITY OF NEVADA RENO								
WINICOV, ILGA B	RNA PHOSPHORYLATION ROLE IN EUCARYOTIC RNA PROCESSING								
BIOCHEMISTRY	MBY		07-01-82 06-30-83	0	21320	5	R01 GM 27230-03	45,982	82
** 1 TOTAL								45,982	
*** 0 *CENTERS								0	
*** 1 NONCENTER								45,982	
*** 1 TOTAL								45,982	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW HAMPSHIRE									
DURHAM	UNIVERSITY OF NEW HAMPSHIRE								
CHASTEEN, NORMAN D CHEMISTRY	ANION DEPENDENT PROPERTIES OF TRANSFERRIN BMT		07-01-82 06-30-83	4	22500	2	R01 GM 20194-10	97,029	82
** 1 TOTAL								97,029	
HANOVER	DARTMOUTH COLLEGE								
ALLEN, ROBERT D BIOLOGICAL SCIENCES	LASER SCANNING PHASE MODULATION RESEARCH MICROSCOPE SSS		07-01-82 06-30-83	0	12930	5	R01 GM 28313-03	140,454	82
ALLEN, ROBERT D BIOLOGICAL SCIENCES	CYTOPLASMIC RHEOLOGY OF MOTILE CELLS CBY		09-01-82 08-31-83	0	22250	5	R01 GM 27284-03	84,566	82
GOSSELIN, ROBERT E PHARMACOLOGY AND TOXICOLOGY	DRUG EFFECTS ON SOLUTE TRANSPORT ACROSS EPITHELIA PHRA		06-01-82 05-31-83	0	11770	5	R01 GM 11598-18	52,222	82
JACKSON, ROBERT C BIOCHEMISTRY	BIOSYNTHESIS AND SEGREGATION OF SECRETORY PROTEINS CBY		09-01-82 08-31-83	2	22300	2	R01 GM 26763-04	92,596	82
LIENHARD, GUSTAV E BIOCHEMISTRY	THE GLUCOSE TRANSPORT SYSTEM OF THE HUMAN ERYTHROCYTE PBC		09-01-82 08-31-83	1	22300	5	R01 GM 22996-07	89,378	82
MARX, KENNETH A CHEMISTRY	PROPERTIES OF NUCLEASE-RESISTING MOUSE CHROMATIN GEN		08-01-81 07-31-83	0	21600	5	R01 GM 25886-03	62,021	81
NODA, LAFAYETTE H BIOCHEMISTRY	HIGH ENERGY PHOSPHATE TRANSFERRING ENZYMES PB		09-01-82 08-31-83	0	22400	5	R01 GM 23123-25	150,479	82
SCHNEIDER, DONALD L BIOCHEMISTRY	ENZYMES LINKING BIOENERGY TO CATABOLISM IN LYSOSOMES BIO		07-01-82 06-30-83	0	22300	5	R01 GM 24459-05	43,998	82
TRUMPOWER, BERNARD L BIOCHEMISTRY	STRUCTURE AND FUNCTION OF HEART MEMBRANE PROTEINS BIO		12-01-81 11-30-82	2	22450	5	R01 GM 20379-09	89,798	82
TRUMPOWER, BERNARD L BIOCHEMISTRY	STRUCTURE AND FUNCTION OF HEART MEMBRANE PROTEINS BIO		05-01-82 11-30-82	2	22450	3	R01 GM 20379-09S1	22,523	82
** 9 TOTAL								828,035	
*** 0 *CENTERS								0	
*** 10 NONCENTER								925,064	
*** 10 TOTAL								925,064	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW JERSEY										
NEWARK	RUTGERS THE STATE UNIV NEWARK									
HALL, STAN S	GLYOXALASE I INHIBITOR STUDIES AND ANTITUMOR AGENTS									
CHEMISTRY	BMT		07-01-81 06-30-83	0	11930	5	R01 GM	25727-03	53,308	81
JORDAN, FRANK	PURINE NUCLEOSIDE PHOSPHORYLASE STUDIES									
CHEMISTRY	BIO		09-01-81 03-31-83	0	22400	5	R01 GM	26682-03	61,489	81
** 2 TOTAL									114,797	
NEWARK	UNIVERSITY OF MEDICINE & DENTISTRY OF NJ									
BRANDRISS, MARJORIE C	GENETIC REGULATION OF PROLINE UTILIZATION									
MICROBIOLOGY	GEN		06-01-82 05-31-83	2	21750	21	R01 GM	30405-01	105,245	82
GOLDMAN, EMANUEL	ANALYSIS OF TRNA CODING BY PROTEIN SYNTHESIS IN VITRO									
MICROBIOLOGY	MBC		04-01-82 03-31-83	0	21320	5	R01 GM	27711-03	84,648	82
KABACK, DAVID B	TRANSCRIPTION DURING MEIOSIS AND SPORULATION IN YEAST									
MICROBIOLOGY	GEN		04-01-82 03-31-83	0	21700	5	R01 GM	27712-03	113,515	82
ROTHSTEIN, RODNEY J	MECHANISMS OF GENOMIC REARRANGEMENTS IN YEAST									
MICROBIOLOGY	GEN		02-01-82 01-31-83	1	21600	5	R01 GM	27916-02	43,225	82
RUSH, BENJAMIN F, JR	CELL BIOLOGY OF HEPATOCYTES INJURED BY HEMORRHAGIC SHOCK									
SURGERY	SAT		02-01-82 01-31-83	2	13420	1	R01 GM	28964-01A1	111,755	82
** 5 TOTAL									458,388	
NEW BRUNSWICK	RUTGERS THE STATE UNIV NEW BRUNSWICK									
BRESLAUER, KENNETH J	DNA POLYMORPHISM IN SOLUTION: A THERMODYNAMIC STUDY									
CHEMISTRY	BBCA		04-01-82 03-31-83	2	21100	2	R01 GM	23509-04	96,842	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW JERSEY										
NEW BRUNSWICK	RUTGERS THE STATE UNIV NEW BRUNSWICK									
BROWN, HARRY D	MICROCALORIMETRIC DEFINITION OF CLINICAL REACTIONS									
FOOD SCIENCE	BBCA		08-01-81	03-31-83	0	12820	5	R01 GM 22679-07	73,944	81
CARMAN, GEORGE M	PHOSPHATIDYLINOSITOL METABOLISM AND MEMBRANE FUNCTION									
FOOD SCIENCE	PC		07-01-82	06-30-83	0	22300	5	R01 GM 28140-03	50,712	82
CHAMPE, SEWELL P	GENETIC CONTROL OF DEVELOPMENT IN MODEL SYSTEMS									
NONE	GEN		05-01-82	04-30-83	0	21320	5	R01 GM 17020-14	121,715	82
DAVIS, FRANK F	NONIMMUNOGENIC ENZYMES FOR THERAPEUTIC USE									
BUREAU OF BIOLOGICAL RESEARCH	ET		12-01-81	11-30-82	2	12820	2	R01 GM 20946-08	161,019	82
DENNEY, DONALD B	PREPARATION AND CHEMISTRY OF ORGANOPHOSPHORUS COMPOUNDS									
CHEMISTRY	MCHA		05-01-82	04-30-83	0	11930	5	R01 GM 26428-18	82,247	82
ISIED, STEPHAN S	INERT METAL ION PROTECTING GROUPS IN PEPTIDE SYNTHESIS									
CHEMISTRY	BMT		04-01-81	09-30-82	0	11840	5	R01 GM 26324-03	59,020	81
LEVY, RONALD M	NMR RELAXATION AND DYNAMICS OF PEPTIDES AND PROTEINS									
CHEMISTRY	BBCB		06-01-82	05-31-83	2	22500	1	R01 GM 30580-01	57,455	82
MARTIN, CHARLES E	THE ROLE OF STEROLS IN MEMBRANE FUNCTION									
BIOLOGICAL SCIENCES	CTY		09-01-82	08-31-83	0	22300	5	R01 GM 28040-03	57,999	82
MENDELSOHN, RICHARD	LIPID CONTROL OF MEMBRANE PROTEIN ORGANIZATION									
CHEMISTRY	BBCB		02-01-82	01-31-83	2	22300	1	R01 GM 29864-01	80,421	82
MORRIS, N RONALD	THE GENETICS OF MICROTUBULE ASSEMBLY AND FUNCTION									
PHARMACOLOGY AND TOXICOLOGY	MBY		06-01-82	05-31-83	3	22250	5	R01 GM 29228-02	157,331	82
NIEDERMAN, ROBERT A	ASSEMBLY OF AN ENERGY TRANSDUCING MEMBRANE SYSTEM									
MICROBIOLOGY	MBC		04-01-82	03-31-83	1	22300	5	R01 GM 26248-04	92,430	82
OLSON, WILMA K	NUCLEIC ACID CONFORMATION, PROPERTIES, AND INTERACTIONS									
CHEMISTRY	BBCA		08-01-82	07-31-83	0	21100	5	R01 GM 20861-09	82,031	82
PIECZENIK, GEORGE	GENOTYPIC SELECTION: MAPPING SYNTAX-STRUCTURE-FUNCTION									
BIOCHEMISTRY	GEN		09-01-82	08-31-83	0	21800	5	R01 GM 23550-06	54,421	82
SIMON, LEE D	GENETIC CONTROL OF PROTEIN DEGRADATION									
NONE	GEN		12-01-81	11-30-82	1	21280	5	R01 GM 27314-03	103,800	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW JERSEY									
NEW BRUNSWICK			RUTGERS THE STATE UNIV NEW BRUNSWICK						
SINHA, NAVIN K / NONE	MG		IN VITRO ANALYSIS OF A DNA REPLICATION APPARATUS / 08-01-82 07-31-83	0	21200	5	R01 GM 24391-06	85,037	82
SOFER, WILLIAM H / NONE	GEN		A SYSTEM FOR ANALYSIS OF GENE CONTROL IN DROSOPHILA / 07-01-82 06-30-83	4	21750	2	R01 GM 28791-03	107,164	82
** 17 TOTAL								1,523,588	
PISCATAWAY			RUTGERS MEDICAL SCHOOL						
DUBIN, DONALD T / MICROBIOLOGY	MBY		R-RNA & RIBOSOME SYNTHESIS IN BACTERIA & ANIMAL CELLS / 02-01-82 01-31-83	3	21320	5	R01 GM 14957-15	123,071	82
DUBIN, DONALD T / MICROBIOLOGY	MBY		TRANSFER RNA SEQUENCES FROM ANIMAL MITOCHONDRIA / 09-01-82 08-31-83	0	21320	5	R01 GM 28100-03	70,326	82
MC ALLISTER, WILLIAM T / MICROBIOLOGY	MG		REGULATION OF VIRAL GENE EXPRESSION / 07-01-82 06-30-83	4	21310	2	R01 GM 21783-08A1	78,673	82
PENNINGROTH, STEPHEN M / PHARMACOLOGY	MBY		ATP-DEPENDENT CONTROL MECHANISMS IN FLAGELLAR MOTILITY / 07-01-82 06-30-83	2	22250	1	R01 GM 31229-01	58,446	82
SILVER, FREDERICK H / PATHOLOGY	PBC		COLLAGEN FIBRILLOGENESIS--MOLECULAR AND CELLULAR STEPS / 09-01-81 02-28-83	0	22500	7	R01 GM 30425-01	33,760	81
TAKAHASHI, MARK T / PHYSIOLOGY AND BIOPHYSICS	BMT		REGULATION OF THREONINE-SENSITIVE ASPARTOKINASE ACTIVITY / 09-01-82 08-31-83	0	22400	5	R01 GM 18628-12	91,670	82
** 6 TOTAL								455,946	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW JERSEY									
PRINCETON	PRINCETON UNIVERSITY								
ALLEN, LELAND C	ELECTRONIC STRUCTURE OF ENZYMES AND REDOX PROTEINS								
CHEMISTRY	SSS		04-01-82 03-31-83	2	22600	2	R01 GM 26462-04	79,671	82
AUSTIN, ROBERT H	TRIPLET ANISOTROPY DECAY STUDIES OF DNA MOTION								
PHYSICS	BBCA		07-01-82 06-30-83	2	21100	1	R01 GM 30789-01	68,766	82
CLINE, THOMAS W	REGULATION OF SEX-SPECIFIC GENES IN DROSOPHILA								
BIOLOGY	GEN		01-01-82 12-31-82	2	21700	5	R01 GM 23468-06	97,866	82
COX, EDWARD C	E COLI MUTATOR GENES								
BIOLOGY	MBC		08-01-82 07-31-83	0	21200	5	R01 GM 28923-12	112,645	82
DISMUKES, G CHARLES	INTERACTION OF COFACTORS IN PHOTOSYNTHETIC ELECTRON TRAN								
CHEMISTRY	BBCA		04-01-82 03-31-83	1	22450	5	R01 GM 28789-02	62,220	82
GILVARG, CHARLES	STRUCTURE AND SYNTHESIS OF THE BACTERIAL CELL WALL								
BIOCHEMICAL SCIENCES	MBC		09-01-82 08-31-83	0	22300	5	R01 GM 29244-03	59,908	82
GREENSPAN, RALPH J	DEVELOPMENTAL GENETICS OF NERVOUS SYSTEM IN DROSOPHILA								
BIOLOGY	GEN		07-01-82 06-30-83	2	21700	1	R01 GM 31104-01	117,471	82
HOGAN, MICHAEL E	MULTINUCLEAR NMR STUDIES OF DNA INTERNAL MOTIONS								
BIOCHEMICAL SCIENCES	BBCA		04-01-82 03-31-83	1	21100	5	R01 GM 29047-02	65,074	82
NEWTON, AUSTIN	GENETICS OF CELL CYCLE AND DEVELOPMENT IN CAULOBACTER								
BIOLOGY	MG		07-01-82 06-30-83	4	21700	2	R01 GM 25644-05	104,104	82
NEWTON, AUSTIN	REGULATION OF DEVELOPMENT IN CAULOBACTER CRESCENTUS								
BIOLOGY	MBC		09-01-82 08-31-83	3	21700	5	R01 GM 22299-08	134,831	82
QUINN, WILLIAM G, JR	GENETIC ANALYSIS OF LEARNING AND MEMORY IN DROSOPHILA								
BIOLOGY	GEN		07-01-82 06-30-83	1	21400	5	R01 GM 25578-05	100,119	82
SCHEDL, PAUL	GENE EXPRESSION DURING D MELANOGASTER EMBRYOGENESIS								
BIOLOGY	GEN		12-01-81 11-30-82	4	21700	2	R01 GM 25976-04	115,428	82
SEMMELHACK, MARTIN F	NATURAL PRODUCT SYNTHESES								
CHEMISTRY	MCHA		04-01-82 03-31-83	2	11910	9	R01 GM 31352-04	124,515	82
SPIRO, THOMAS G	METAL CENTERS IN BIOLOGICAL SYSTEMS								
CHEMISTRY	BBCB		08-01-82 07-31-83	2	11920	5	R01 GM 13498-17	105,924	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW JERSEY									
PRINCETON	PRINCETON UNIVERSITY								
SPIRO, THOMAS G CHEMISTRY	RAMAN STUDIES OF FLAVINS AND PYRIDINE COENZYMES BBCB	04-01-82 03-31-83	2	22500	2	R01 GM	25158-04A1	98,542	82
TAYLOR, EDWARD C CHEMISTRY	NOVEL AMINO GROUP TRANFORMATIONS IN HETEROCYCLES MCHA	09-01-82 08-31-83	0	11940	5	R01 GM	27983-03	76,811	82
** 16 TOTAL								1,523,895	
SOUTH ORANGE	SETON HALL UNIVERSITY								
LOVE, L J CLINE CHEMISTRY	CHARGE TRANSFER COMPLEXES IN INVERTED MICELLES BBCA	09-01-82 08-31-83	0	22500	5	R01 GM	27350-03	13,116	82
** 1 TOTAL								13,116	
*** 0 *CENTERS								0	
*** 47 NONCENTER								4,089,730	
*** 47 TOTAL								4,089,730	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW MEXICO									
ALBUQUERQUE	UNIVERSITY OF NEW MEXICO ALBUQUERQUE								
ALLEN, FRITZ S	AN ELECTRIC DICHROISM STUDY OF DNA & DNA-DRUG ADDUCTS								
CHEMISTRY	BBCA		01-01-82 12-31-82	0	21100	5 R01 GM	27046-03	37,586	82
KOGOMA, TOKIO	DNA REPLICATION IN E. COLI: REGULATORY MUTANTS								
BIOLOGY	MG		03-01-82 02-28-83	2	21200	2 R01 GM	22092-07	83,625	82
LOFTFIELD, ROBERT B	HOW POLYAMINES ENHANCE PRECISION OF AA-TRNA SYNTHESIS								
BIOCHEMISTRY	PC		04-01-82 03-31-83	2	21320	1 R01 GM	30679-01	100,501	82
VANDERJAGT, DAVID L	BILIRUBIN TRANSPORT PROTEINS								
BIOCHEMISTRY	BIO		12-01-81 11-30-82	2	22500	2 R01 GM	25295-07	98,186	82
** 4 TOTAL								319,898	
LAS CRUCES	NEW MEXICO STATE UNIVERSITY LAS CRUCES								
DARNALL, DENNIS W	SPECTROSCOPIC RULERS AS PROBES OF HUMAN SERUM ALBUMIN								
CHEMISTRY	BBCA		08-01-82 07-31-83	0	22500	5 R01 GM	28166-03	61,934	82
HAGEMAN, JAMES H	SERINE PROTEASES AND PROTEIN TURNOVER IN BACILLI								
CHEMISTRY	BIO		06-01-81 11-30-82	0	22400	5 R01 GM	19643-09	55,725	81
KUEHN, GLENN D	POLYAMINES AND GENE CONTROL IN PHYSARUM POLYCEPHALUM								
CHEMISTRY	MBY		09-01-82 08-31-83	2	22200	5 R01 GM	18538-12	71,733	82
WILKINS, RALPH C	KINETIC STUDIES OF HEMERYTHRIN REACTIONS								
CHEMISTRY	BMT		05-01-82 04-30-83	3	22450	5 R01 GM	28796-08	69,262	82
** 4 TOTAL								258,654	
*** 0 *CENTERS								69,262	
*** 8 NONCENTER								509,290	
*** 8 TOTAL								578,552	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
ALBANY	ALBANY MEDICAL COLLEGE								
BOURKE, ROBERT S	ON-LINE COMPUTER STUDY OF THERAPY FOR HUMAN SHOCK								
SURGERY	SRC		08-01-82 06-30-83	2	13300	*2	P50 GM 15426-16	549,555	82
KAPLAN, JOHN E	PHAGOCYTIC CONTROL OF THROMBOSIS DURING SEPSIS								
PHYSIOLOGY	HEM		12-01-81 11-30-82	2	13410	2	R01 GM 25946-04	79,474	82
KAPLAN, JOHN E	SCINTIGRAPHIC EVALUATION OF PHYSIOLOGICAL EVENTS								
PHYSIOLOGY	SSS		09-01-81 01-31-83	0	12900	5	P41 GM 27405-03	22,200	81
LOEGERING, DANIEL J	HEMOLYSIS AND PHAGOCYTIC DYSFUNCTION DURING SHOCK								
PHYSIOLOGY	SAT		07-01-82 06-30-83	2	13410	2	R01 GM 26102-04A1	89,261	82
LOEGERING, DANIEL J	MECHANISM OF RETICULOENDOTHELIAL FAILURE IN SHOCK								
PHYSIOLOGY	SGYA		04-01-81 09-30-82	0	13410	5	R01 GM 26297-06	44,924	81
SABA, THOMAS M	SYSTEMIC HOST DEFENSE FOLLOWING TRAUMA								
PHYSIOLOGY	SAT		12-01-81 11-30-82	1	13410	5	R01 GM 21447-08	88,150	82
TURINSKY, JIRI	MECHANISM OF INSULIN RESISTANCE AFTER BURNS								
PHYSIOLOGY	MET		09-01-81 02-28-83	0	13420	5	R01 GM 22825-06	64,535	81
VAN DER HOEVEN, THEODORE A	ENDOCRINE CONTROL OF LIVER MICROSOMAL CYTOCHROME P-450								
BIOCHEMISTRY	BIO		09-01-82 08-31-83	0	11880	5	R01 GM 27811-03	54,220	82
** 8 TOTAL								992,319	
ALBANY	NEW YORK STATE DEPARTMENT OF HEALTH								
BERNS, DONALD S	PHOTOSENSITIVE MODEL MEMBRANE STUDIES								
DIV OF LABS AND RESEARCH	BBCB		09-01-80 10-31-82	0	22300	5	R01 GM 22247-06	57,255	80
CHATTERJEE, NANDO K	NUCLEAR PROTEIN SYNTHESIS IN EUKARYOTIC CELLS								
INFECTIOUS DISEASE CENTER	BIO		04-01-82 03-31-83	1	21320	5	R01 GM 27792-02	72,440	82
ELLIOTT, ROSEMARY W	DETECTING AND MAPPING SEQUENCE CHANGES IN MOUSE DNA								
MOLECULAR BIOLOGY	MGN		12-01-81 11-30-82	3	21480	5	R01 GM 28464-02	107,770	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
ALBANY	NEW YORK STATE DEPARTMENT OF HEALTH								
FRANK, JOACHIM LABORATORY MEDICINE	STRUCTURAL ANALYSIS OF MACROMOLECULAR ASSEMBLIES SSS		04-01-82 03-31-83	2	12930	1	R01 GM 29169-01A1	121,823	82
KAMINSKY, LAURENCE S DIV OF LABS AND RESEARCH	HEPATIC MICROSOMAL ENZYME METABOLISM OF ANESTHETICS PHRA		05-01-82 03-31-83	0	13200	5	R01 GM 23029-06	45,031	81
MACCOLL, ROBERT J NONE	STRUCTURE AND FUNCTION OF PHOTOSYNTHETIC PIGMENTS BBCA		04-01-82 03-31-83	2	22500	2	R01 GM 26050-03	44,636	82
MALEY, FRANK DEVELOPMENTAL BIOCHEMISTRY LAB	FOLATE BINDING SITES IN THYMIDYLATE SYNTHETASE BIO		04-01-81 12-31-82	0	22400	5	R01 GM 26387-03	16,500	81
PAOLETTI, ENZO DIV OF LABS & RES	VACCINIA RNA SYNTHESIS: A MODEL FOR MRNA BIOGENESIS EVR		04-01-82 03-31-83	0	21320	5	R01 GM 23853-06	92,068	82
PLUMMER, T H, JR DIV OF LABORATORIES	CHARACTERIZATION OF PEPTIDE: N-GLYCOSIDASES PC		05-01-82 04-30-83	2	22410	1	R01 GM 30471-01	34,267	82
STURMAN, LAWRENCE S NONE	CORONAVIRUS GLYCOPROTEINS AND GLYCOSAMINOGLYCANS EVR		07-01-82 06-30-83	2	22410	1	R01 GM 31698-01	93,764	82
TIVOL, WILLIAM F CLINICAL LABORATORY CENTER	ELECTRON ENERGY-LOSS ELEMENT ANALYSIS OF WET CELLS SSS		03-01-82 02-28-83	1	12930	5	R01 GM 28614-02	49,682	82
TRIMBLE, ROBERT B NONE	GLYCOPROTEIN BIOSYNTHESIS IN YEAST PC		09-01-81 08-31-83	0	22410	5	R01 GM 23900-05	44,811	81
** 12 TOTAL								780,047	
ALBANY	NEW YORK STATE OFFICE OF MENTAL HEALTH								
KANDEL, ERIC R NEUROBIOLOGY & BEHAVIOR	CELLULAR ANALYSES OF BEHAVIOR SSS		05-01-82 04-30-83	3	13700	7	P01 GM 32099-01	578,020	82
** 1 TOTAL								578,020	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK										
ALBANY	STATE UNIVERSITY OF NEW YORK AT ALBANY									
KARLIN, KENNETH D	NEW COPPER(I) CHEMISTRY-MODELS FOR METALLOPROTEINS									
CHEMISTRY	BMT		04-01-82 03-31-83	1	11920	5	R01 GM	28962-02	57,368	82
KING, TSOO E	RECONSTITUTION OF MITOCHONDRIAL RESPIRATORY CHAIN									
CHEMISTRY	BIO		12-01-81 11-30-82	2	22450	5	R01 GM	16767-14	108,011	82
LERMAN, LEONARD S	STRATEGY FOR THE CHARACTERIZATION OF THE HUMAN GENOME									
BIOLOGICAL SCIENCES	BBCA		09-01-82 08-31-83	2	21600	2	R01 GM	24030-07	147,401	82
SARMA, RAMASWAMY H	MAGNETIC RESONANCE STUDIES OF BIOLOGICAL INTERACTIONS									
CHEMISTRY	BBCA		09-15-82 08-31-83	4	21100	9	R01 GM	29787-11	75,321	82
SEEMAN, NADRIAN C	PHYSICAL CHEMISTRY OF RECOMBINATIONAL INTERMEDIATES									
BIOLOGICAL SCIENCES	PC		08-01-82 07-31-83	2	21200	1	R01 GM	29554-01	66,808	82
TEDESCHI, HENRY	THE ELECTRICAL PROPERTIES OF TRANSDUCING MEMBRANES									
BIOLOGICAL SCIENCES	BIO		01-01-82 12-31-82	1	22450	5	R01 GM	27043-03	65,983	82
WULFF, DANIEL L	CONTROL OF TRANSCRIPTION AT THE LAMBDA PRE PROMOTER									
BIOLOGICAL SCIENCES	MG		07-01-82 06-30-83	3	21750	5	R01 GM	28370-03	106,830	82
ZUBIETA, JON A	CONFERENCE ON COPPER COORDINATION CHEMISTRY									
CHEMISTRY	BMT		04-01-82 03-31-83	0	11920	1	R13 GM	30753-01	2,000	82
ZUBIETA, JON A	MOLYBDENUM & SULFUR COMPLEXES--MODELS FOR METALLOENZYMES									
CHEMISTRY	BMT		07-01-82 06-30-83	0	11920	5	R01 GM	22566-07	49,177	82
** 9 TOTAL									678,899	
BINGHAMTON	STATE UNIVERSITY NEW YORK BINGHAMTON									
BYNG, GRAHAM S	ENZYMIC INTERFACE BETWEEN PRIMARY & SECONDARY METABOLISM									
NONE	CP		05-01-82 04-30-83	2	22400	1	R01 GM	30729-01	59,558	82
LOEW, LESLIE M	A CONCERTED SEARCH FOR ELECTROCHROMIC MEMBRANE PROBES									
CHEMISTRY	BBCA		12-01-81 11-30-82	3	22300	2	R01 GM	25190-04	95,005	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
BINGHAMTON			STATE UNIVERSITY NEW YORK BINGHAMTON						
STARZAK, MICHAEL E CHEMISTRY	BBCB		THE EFFECTS OF SALTS ON INTERACTIJNS IN AQUEOUS MEDIA 05-01-81 12-31-82	0	22500	5	R01 GM 11762-17	51,733	81
STEVENS, EUGENE S CHEMISTRY	BBCA		CHARACTERIZATION OF BIOPOLYMERS BY VACUUM UV CD 04-01-82 03-31-83	2	22410	2	R01 GM 24862-04	57,916	82
STEVENS, EUGENE S CHEMISTRY	SSS		NIGMS SHARED INSTRUMENTATION GRANT 08-01-82 03-31-83	0	22410	3	R01 GM 24862-04S1	40,200	82
SULZMAN, FRANK M BIOLOGICAL SCIENCES	BPO		LIGHT-DARK ENTRAINMENT OF CIRCADIAN RHYTHMS 07-01-82 06-30-83	0	13700	5	R01 GM 28265-03	48,637	82
** 5 TOTAL								353,049	
BUFFALO			MEDICAL FOUNDATION OF BUFFALO						
DORSET, DOUGLAS L MOLECULAR BIOPHYSICS	BBCB		ELECTRON DIFFRACTION OF MEMBRANE PHOSPHOLIPIDS 06-01-82 05-31-83	2	22550	2	R01 GM 21047-09	131,952	82
** 1 TOTAL								131,952	
BUFFALO			ROSWELL PARK MEMORIAL INSTITUTE						
CHAPMAN, VERNE M NONE	SSS		GENETIC STUDY OF MAMMALIAN CONTROL SYSTEMS 05-01-81 04-30-83	0	21700	5	P01 GM 19521-10	781,841	81
CHAPMAN, VERNE M NONE	SSS		GENETIC STUDY OF MAMMALIAN CONTROL SYSTEMS 05-01-81 04-30-83	0	21700	3	P01 GM 19521-10S1	269,856	82
CHAPMAN, VERNE M MOLECULAR BIOLOGY	GEN		NEW GLUCURONIDASE REGULATORY VARIANTS IN MICE 07-01-82 06-30-83	1	21750	5	R01 GM 26770-04	148,351	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK										
BUFFALO	ROSWELL PARK MEMORIAL INSTITUTE									
CHAPMAN, VERNE M	REGULATION OF X-CHROMOSOME DIFFERENTIATION IN MAMMALS									
	MGN		08-01-82	07-31-83	2	21800	2	R01 GM 24125-06	126,775	82
DOYLE, DARRELL J	MEMBRANE BIOGENESIS IN NORMAL AND MALIGNANT CELLS									
CELL AND TUMOR BIOLOGY	CTY		01-01-82	12-31-82	1	22300	5	R01 GM 24147-05	143,081	82
ELLIOTT, ROSEMARY W	MAPPING MOUSE GENES USING 2-D ELECTROPHORESIS									
MOLECULAR BIOLOGY	MGN		09-01-82	08-31-83	1	21480	5	R01 GM 24265-05	53,679	82
GROSS, KENNETH W	ANDROGEN RESPONSIVE GENES OF MOUSE SUBMAXILLARY GLAND									
MOLECULAR BIOLOGY	MGN		02-01-82	01-31-83	2	21480	1	R01 GM 30248-01	106,306	82
HASTIE, NICHOLAS D	REPETITIVE DNA SEQUENCES IN THE MOUSE GENOME									
VIRAL ONCOLOGY	CTY		01-01-82	12-31-82	1	21750	5	R01 GM 24771-05	90,362	82
HELMSTETTER, CHARLES E	BIOCHEMISTRY AND RADIATION EFFECT DURING THE CELL CYCLE									
EXPERIMENTAL BIOLOGY	MBC		07-01-82	06-30-83	2	22200	2	R01 GM 26429-17	78,681	82
HUBERMAN, JOEL A	SOLUBLE PROTEINS OF MAMMALIAN DNA REPLICATION									
VIRAL ONCOLOGY	MBY		07-01-82	06-30-83	0	21200	5	R01 GM 28098-03	128,681	82
HUI, SEK-WEN	EFFECTS OF BILAYER DEFECTS ON MEMBRANE ACTIVITY									
BIOPHYSICS	BBCB		07-01-82	06-30-83	0	22300	5	R01 GM 28120-03	75,621	82
HUI, SEK-WEN	MECHANISM OF POLYETHYLENE GLYCOL INDUCED MEMBRANE FUSION									
NONE	BBCB		07-01-82	06-30-83	2	22300	1	R01 GM 30969-01	46,520	82
KARTHA, GOPINATH	CYCLIC PEPTIDES, STRUCTURE AND FUNCTION									
BIOPHYSICS	BBCA		09-01-82	08-31-83	2	22550	2	R01 GM 22490-07	68,132	82
KOHLER, HEINZ	STRUCTURE OF THE MAJOR RED CELL MEMBRANE POLYPEPTIDE									
MOLECULAR IMMUNOLOGY	PC		04-01-82	03-31-83	0	22300	7	R01 GM 31367-01	94,470	82
KOWALSKI, DAVID	STUDY OF LIMITED ENZYMATIC CLEAVAGE OF NATIVE DNA									
LABORATORY OF ENZYMOLOGY	BIO		06-01-81	05-31-83	0	21200	2	R01 GM 24950-07	57,732	81
MATTA, KHUSHI L	STUDIES RELATED TO ENDOGLYCOSIDASES									
GYNECOLOGY	MCHA		09-01-81	08-31-83	0	22400	5	R01 GM 24392-03	63,092	81
PARTHASARATHY, RENGACHARY	STRUCTURE AND FUNCTION OF MODIFIED NUCLEOSIDES OF RNA									
BIOPHYSICS	BBCA		12-01-81	11-30-82	0	21100	5	R01 GM 24864-08	53,163	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK										
BUFFALO	ROSWELL PARK MEMORIAL INSTITUTE									
PEARSON, ROBERT H BIOPHYSICS	SINGLE CRYSTAL MOLECULAR STRUCTURES OF LECITHIN BBCB		01-01-82 12-31-82	0	22550	5	R01 GM	27274-03	53,591	82
PIERUCCI, OLGA RADIATION MEDICINE	ROLE OF THE BACTERIAL ENVELOPE IN CELL DUPLICATION MBC		04-01-81 03-31-83	0	22300	5	R01 GM	21006-06	38,739	81
SHOWS, THOMAS B HUMAN GENETICS	HUMAN GENE LINKAGE RELATIONSHIPS IN CELL HYBRIDS MGN		08-01-82 07-31-83	3	21480	5	R01 GM	20454-10	226,490	82
** 19 TOTAL									2,705,163	
BUFFALO	STATE UNIVERSITY OF NEW YORK AT BUFFALO									
BEREZNEY, RONALD BIOLOGICAL SCIENCES	NUCLEAR MATRIX STRUCTURE AND DNA REPLICATION CTY		03-01-82 02-28-83	1	21200	5	R01 GM	23922-05	79,453	82
BORDER, JOHN R SURGERY	SEQUENCE OF ORGAN FAILURES FOLLOWING TRAUMA SRC		07-01-81 06-30-83	0	13300	5	P01 GM	15768-13	316,346	81
BRUENN, JEREMY A BIOLOGY	RELATEDNESS OF USTILAGE MAYDIS VIRAL DOUBLE-STRANDED RNA MG		02-01-82 01-31-83	2	21600	1	R01 GM	29928-01	55,712	82
BRUENN, JEREMY A CELL AND MOLECULAR BIOLOGY	SEQUENCING OF YEAST KILLER-FACTOR RNAS MBC		05-01-82 04-30-83	2	21310	5	R01 GM	22200-08	88,624	82
FERGUSON, KAREN A BIOCHEMISTRY	EFFECT OF STEROL ON MEMBRANE-BOUND ENZYMES PC		07-01-81 06-30-83	0	22300	5	R01 GM	26600-03	71,388	81
HARFORD, A GAYLER CELL AND MOLECULAR BIOLOGY	NATURAL CORRECTION OF GENE DEFICIENCIES GEN		12-01-79 06-30-83	0	21600	5	R01 GM	21487-06	86,625	80
HO, JOHN T PHYSICS AND ASTRONOMY	PHOSPHOLID PHASE TRANSITIONS AND MEMBRANE FUSION BBCB		01-01-82 12-31-82	0	22300	5	R01 GM	24590-05	54,169	82
JUSKO, WILLIAM J PHARMACEUTICS	AGE AND DISEASE IN DRUG DISPOSITION PHRA		07-01-82 06-30-83	1	11880	5	R01 GM	24211-06	99,064	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
BUFFALO	STATE UNIVERSITY OF NEW YORK AT BUFFALO								
LA FOUNTAIN, JAMES R, JR	THE KINETOCHORE: A MOLECULAR CYTOCHEMICAL APPROACH								
BIOLOGICAL SCIENCES	CBY		01-01-82 12-31-82	0	22250	5	R01 GM 27288-03	58,028	82
LEVY, GERHARD	PHARMACOKINETICS OF SALICYLATES IN CHILDREN & RATS								
PHARMACEUTICS	PHRA		07-01-82 06-30-83	0	11850	5	R01 GM 19568-15	90,949	82
LEVY, GERHARD	CLINICAL PHARMACOKINETICS AND BIOPHARMACEUTICS								
PHARMACEUTICS	PTR		01-01-82 12-31-82	1	11700	*5	P50 GM 20852-09	363,342	82
MORGAN, EDWARD A	NEW APPROACHES TO ASPECTS OF TRNA AND RRNA IN E COLI								
CELL AND MOLECULAR BIOLOGY	MBC		06-01-82 05-31-83	0	21750	5	R01 GM 27664-03	59,118	82
NILES, EDWARD G	SPECIFIC SYNTHESIS AND PROCESSING OF RRNA IN VITRO								
BIOCHEMISTRY	PBC		05-01-81 07-31-83	0	21750	5	R01 GM 23259-06	62,578	81
NILES, EDWARD G	SPECIFIC SYNTHESIS AND PROCESSING OF RRNA IN VITRO								
BIOCHEMISTRY	GEN		05-01-81 07-31-83	0	21750	3	R01 GM 23259-06S1	10,131	82
NILES, EDWARD G	SPECIFIC SYNTHESIS AND PROCESSING OF RRNA IN VITRO								
BIOCHEMISTRY	GEN		05-01-81 07-31-83	0	21750	3	R01 GM 23259-06S2	25,328	82
OHKI, SHINPEI	CELL FUSION IN MODEL AND BIOLOGICAL MEMBRANE SYSTEMS								
BIOPHYSICAL SCIENCES	BBCB		04-01-82 03-31-83	1	22300	5	R01 GM 24840-05	73,286	82
PRASAD, PARAS N	REACTION DYNAMICS OF SOLIDS OF BIOLOGICAL INTEREST								
CHEMISTRY	BBCA		01-01-82 12-31-82	0	22500	5	R01 GM 27357-03	43,469	82
RITCHIE, CALVIN D	NUCLEOPHILIC REACTIVITY								
CHEMISTRY	BBCA		01-01-81 12-31-82	0	11920	5	R01 GM 12832-14	37,153	81
SNYDER, GRAYSON H	STRATEGIES FOR DIRECTING DISULFIDE PAIRING IN PROTEINS								
BIOPHYSICAL SCIENCES	BBCA		07-01-82 06-30-83	2	22500	2	R01 GM 26715-04	85,733	82
TUFARIELLO, JOSEPH J	ALKALOID SYNTHESIS								
CHEMISTRY	MCHA		09-01-82 08-31-83	1	11910	5	R01 GM 25303-05	112,377	82
** 18 TOTAL								1,872,873	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK										
COLD SPRING HARB	COLD SPRING HARBOR LABORATORY									
BUKHARI, AHMAD I NONE	MOVABLE GENETIC ELEMENTS SSS		06-01-82 05-31-83	0	21780	5	P01 GM	27643-03	891,065	82
FERAMISCO, JAMES R CELL BIOLOGY	INJECTION OF FLUORESCENTLY LABELLED PROTEINS INTO CELLS CBY		07-01-82 06-30-83	0	22250	5	R01 GM	28277-03	79,165	82
HICKS, JAMES B NONE	REGULATION AND INTERCONVERSION OF MATING TYPES IN YEAST GEN		07-01-82 06-30-83	3	21700	5	R01 GM	25624-05	211,172	82
HICKS, JAMES B NONE	BACTERIAL GENETICS GBD		05-01-82 04-30-83	0	21700	5	R13 GM	30337-03	30,735	82
KLAR, AMAR J NONE	MOLECULAR MECHANISMS OF DIFFERENTIATION GEN		07-01-82 06-30-83	3	21700	5	R01 GM	25678-05	155,587	82
LIN, JIM J CELL BIOLOGY GROUP	GOLI-ASSOCIATED, HEAT-SHOCK PROTEIN CBY		09-24-82 08-31-83	2	22200	1	R01 GM	31048-01	101,640	82
MATHEWS, MICHAEL B PROTEIN SYNTHESIS SECT	INDUCTION AND REPRESSION BY AMINO ACID ANALOGUES MBY		04-01-82 03-31-83	0	21750	5	R01 GM	27790-03	91,068	82
MATHEWS, MICHAEL B NONE	RNA PROCESSING MEETINGS SSS		04-15-82 03-31-83	0	21320	1	R13 GM	30579-01	5,000	82
WATSON, JAMES D NONE	CONFERENCE ON HEAT SHOCK INDUCTION OF PROTEINS MBY		04-15-82 03-31-83	0	21750	1	R13 GM	30536-01	5,000	82
** 9 TOTAL									1,570,432	
GARDEN CITY	ADELPHI UNIVERSITY									
DAVIS, DONALD G CHEMISTRY	THE CONFORMATION AND FUNCTION OF CYCLIC PEPTIDES BBCB		07-01-82 06-30-83	0	22300	5	R01 GM	24267-06	42,558	82
** 1 TOTAL									42,558	

NEW YORK

ITHACA

CORNELL UNIVERSITY ITHACA

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ALBRECHT, ANDREAS C / CHEMISTRY	BASIC PHOTOELECTRIC STUDIES IN ORGANIC CONDENSED PHASE	BBCA		07-01-82 06-30-83	3	22600	5	R01 GM 10865-23	128,406	82
BARKER, ROBERT / BIOCHEM/MOLECULAR & CELL BIOL	MEMBRANE OLIGOSACCHARIDES AND MONOSACCHARIDE METABOLISM	PC		02-01-82 01-31-83	2	22300	5	R01 GM 27632-03	69,503	82
BRETSCHER, ANTHONY P / BIOCHEM/MOLECULAR & CELL BIOL	MICROFILAMENT ORGANIZATION AND MEMBRANE ATTACHMENT	CBY		09-01-82 08-31-83	0	22250	5	R01 GM 30603-02	56,764	82
BRUNS, PETER J / GENETICS AND DEVELOPMENT	THE GENETIC ORGANIZATION OF TETRAHYMENA	GEN		04-01-82 03-31-83	2	21480	5	R01 GM 27871-03	94,951	82
CARPENTER, BARRY K / CHEMISTRY	TEST OF A NEW THEORY ON STRUCTURE AND REACTIVITY	MCHA		01-01-82 12-31-82	0	11930	5	R01 GM 27022-03	70,600	82
COLLUM, DAVID B / CHEMISTRY	ASSISTED ELECTROPHILIC OPENING OF CYCLOPROPANES	MCHA		09-15-82 08-31-83	2	11940	1	R01 GM 30875-01	89,042	82
COLLUM, DAVID B / CHEMISTRY	THE SYNTHESIS OF ANTITUMOR AGENTS	MCHA		02-01-82 01-31-83	3	11910	1	R01 GM 30350-01	88,033	82
DROST, CORNELIS J / PHYSIOL BIOCHEM & PHARMACOLOGY	ULTRASOUND INTENSITY METER	RNM		04-01-81 03-31-83	0	12910	1	R01 GM 29106-01	76,378	81
EDELSTEIN, STUART J / BIOCHEM/MOLECULAR & CELL BIOL	STRUCTURE AND ASSEMBLY OF TUBULIN	CBY		02-01-82 01-31-83	3	22250	5	R01 GM 24800-05	90,743	82
FOX, THOMAS D / DIV OF BIOLOGICAL SCIENCES	CODING AND REGULATION OF YEAST MITOCHONDRIAL GENES	GEN		09-01-82 08-31-83	1	21280	5	R01 GM 29362-02	122,946	82
FREED, JACK H / CHEMISTRY	ELECTRON-SPIN RELAXATION IN MODEL MEMBRANES	BBCB		12-01-81 11-30-82	3	22300	2	R01 GM 25862-04	138,293	82
GANEM, BRUCE / CHEMISTRY	SYNTHESIS AND BIOSYNTHESIS IN THE SHIKIMATE PATHWAY	BNP		01-01-82 12-31-82	1	11910	5	R01 GM 24054-05	104,089	82
GIBSON, QUENTIN H / BIOCHEM/MOLECULAR & CELL BIOL	KINETICS OF ENZYMES AND HEMOGLOBIN-LIGAND REACTIONS	BMT		06-01-82 05-31-83	1	22400	5	R01 GM 14276-18	143,108	82
HAMMES, GORDON G / CHEMISTRY	KINETICS OF PHYSIOLOGICALLY IMPORTANT REACTIONS	BBCA		12-01-81 11-30-82	2	22400	5	R01 GM 13292-18	213,925	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
ITHACA	CORNELL UNIVERSITY ITHACA								
HESS, GEORGE P	RELATIONSHIPS BETWEEN PROTEIN STRUCTURE AND FUNCTION								
BIOCHEM/MOLECULAR & CELL BIOL	BIO		09-01-82 08-31-83	0	22300	5	R01 GM 04842-27	76,414	82
JAGENDORF, ANDRE T	MEMBRANE-ASSOCIATED PHOSPHORYLATION								
PLANT BIOLOGY	PB		09-01-82 08-31-83	2	22450	2	R01 GM 14479-17	113,124	82
KAZARINOFF, MICHAEL N	INTRACELLULAR DEGRADATION OF ENZYMES								
NONE	BIO		12-01-81 11-30-82	1	22400	5	R01 GM 28540-02	46,825	82
KELLER, ELIZABETH B	THE BIOSYNTHESIS OF RNA'S: MECHANISMS AND CONTROLS								
BIOCHEM/MOLECULAR & CELL BIOL	PC		07-01-82 06-30-83	3	21320	5	R01 GM 10791-20	126,218	82
LIS, JOHN T	COORDINATE GENE REGULATION IN ANIMAL CELLS								
BIOCHEM/MOLECULAR & CELL BIOL	GEN		04-01-82 03-31-83	3	21750	5	R01 GM 25232-05	103,840	82
MACDONALD, RUSSELL E	COUPLING OF ENERGY TO THE TRANSPORT OF IONS & MOLECULES								
BIOCHEM/MOLECULAR & CELL BIOL	BIO		09-01-82 08-31-83	0	22300	5	R01 GM 27656-03	100,080	82
MC LAFFERTY, FRED W	MASS SPECTROMETRY IN BIOMEDICAL RESEARCH								
CHEMISTRY	BMT		01-01-82 12-31-82	4	12840	2	R01 GM 16609-14	236,298	82
MC MURRY, JOHN E	ALKALOID SYNTHESIS VIA AZIRIDINIUM IONS								
CHEMISTRY	MCHA		12-01-81 11-30-82	1	11910	5	R01 GM 28569-02	80,026	82
MOFFAT, JOHN K	PROTEINS OF PHYSIOLOGICAL INTEREST: STRUCTURE-FUNCTION								
BIOCHEM/MOLECULAR & CELL BIOL	BBCB		05-01-82 04-30-83	3	22550	5	R01 GM 29044-02	137,293	82
MORRISON, GEORGE H	ION MICROSCOPY IN BIOLOGY AND MEDICINE								
CHEMISTRY	SSS		07-01-82 06-30-83	0	12930	5	R01 GM 24314-06	72,972	82
QUE, LAWRENCE, JR	NON-HEME IRON DIOXYGENASES: STRUCTURE AND MECHANISM								
CHEMISTRY	BMT		07-01-82 06-30-83	3	22400	5	R01 GM 25422-05	106,799	82
ROBERTS, JEFFREY W	GENE CONTROL IN INFECTION & LYSOGENY BY PHAGE LAMBDA								
BIOCHEM/MOLECULAR & CELL BIOL	MG		02-01-82 01-31-83	3	21750	5	R01 GM 21941-08	145,815	82
SALPETER, MIRIAM M	HIGH RESOLUTION AUTORADIOGRAPHY								
NEUROBIOLOGY AND BEHAVIOR	CBY		12-01-81 11-30-82	1	12930	5	R01 GM 10422-20	132,884	82
SCHERAGA, HAROLD A	INTERNAL BONDING IN PROTEINS								
CHEMISTRY	BBCB		01-01-82 12-31-82	4	22500	2	R01 GM 14312-28	139,344	82

INVESTIGATOR DEPARTMENT	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK										
ITHACA	CORNELL UNIVERSITY ITHACA									
SCHERAGA, HAROLD A	MOTION AND PROXIMITY RELATIONS IN POLYPEPTIDES									
CHEMISTRY	BBCB		04-01-82	03-31-83	3	22500	5	R01 GM 24893-13	118,022	82
SRB, ADRIAN M	DEVELOPMENTAL GENETIC STUDIES OF NEUROSPORA									
DIV OF BIOLOGICAL SCIENCES	GEN		08-01-81	11-30-82	0	21700	5	R01 GM 12953-32	55,167	81
TURNBULL, BRUCE W	STATISTICAL METHODS FOR HEALTH STUDIES									
SCHOOL OF OPERATIONS RESEARCH	SSS		02-01-82	01-31-83	1	12100	5	R01 GM 28364-02	43,364	82
TYE, BIK-KWOON	THE STRUCTURAL GENE FOR A YEAST PHEROMONE									
BIOCHEM/MOLECULAR & CELL BIOL	GEN		05-01-82	04-30-83	0	21480	5	R01 GM 26941-03	63,287	82
USHER, DAVID A	TEMPLATE REACTIONS AND CHEMICAL EVOLUTION									
CHEMISTRY	MCHA		04-01-82	03-31-83	0	21100	5	R01 GM 26249-04	53,639	82
WILSON, DAVID B	ISOLATION AND CHARACTERIZATION OF THE S GENE PRODUCT									
BIOCHEM/MOLECULAR & CELL BIOL	MBC		07-01-82	06-30-83	2	22300	2	R01 GM 25030-04	93,873	82
WU, RAY	FUNCTION OF INTERVENING SEQUENCE IN YEAST TRNA GENE									
BIOCHEM/MOLECULAR & CELL BIOL	PC		12-01-81	11-30-82	0	21320	5	R01 GM 27365-03	86,666	82
WU, RAY	DNA SEQUENCE ANALYSIS OF EUCARYOTIC CYTOCHROME C GENES									
BIOCHEM/MOLECULAR & CELL BIOL	GEN		04-01-82	03-31-83	3	21600	5	R01 GM 29179-02	108,289	82
ZAHLER, STANLEY A	THE DNA OF SPECIALIZED TRANSDUCING PHASE SPBETA									
GENETICS AND DEVELOPMENT	MG		07-01-81	11-30-82	0	21780	5	R01 GM 28038-02	50,105	81
** 37 TOTAL									3,777,125	
LAKE PLACID	W. ALTON JONES CELL SCIENCE CENTER									
MC KEEHAN, WALLACE L	OXOCARBOXYLIC ACIDS AND NAD PLUS/NADH IN CELL GROWTH									
NONE	CBY		01-01-82	12-31-82	0	22450	5	R01 GM 30341-02	90,132	82
** 1 TOTAL									90,132	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK										
NEW YORK			BARNARD COLLEGE							
GOLLUB, EDITH G BIOLOGICAL SCIENCES	GEN		HEME REGULATION OF MACROMOLECULAR CELL COMPONENTS 03-01-82 02-28-83	0	21280	5	R01 GM	26998-03	79,240	82
** 1 TOTAL									79,240	
NEW YORK			BROOKLYN COLLEGE							
COTTRELL, STEPHEN F BIOLOGY	MBY		MITOCHONDRIAL ASSEMBLY DURING THE YEAST CELL CYCLE 09-01-81 08-31-83	0	22450	5	R01 GM	25901-03	45,610	81
FOREST, CHARLENE L BIOLOGY	CBY		FLAGELLAR SEXUAL SIGNALING IN CONDITIONAL MUTANTS 08-01-82 07-31-83	0	22200	5	R01 GM	27969-03	68,834	82
NISHIURA, JAMES T BIOLOGY	GEN		GENETICS AND BIOCHEMISTRY OF EUKARYOTIC RNA POLYMERASES 01-01-82 12-31-82	1	21310	5	R01 GM	23456-05	33,614	82
PIZER, RICHARD D CHEMISTRY	MCHB		THE DYNAMICS OF CRYPTATE FORMATION 01-01-82 12-31-82	0	11920	5	R01 GM	24748-03	28,694	82
** 4 TOTAL									176,752	
NEW YORK			CITY COLLEGE OF NEW YORK							
COSLOY, SHARON D BIOLOGY	MBC		MOLECULAR MECHANISM OF RECOMBINATION OF E COLI K12 12-01-81 11-30-82	0	21200	5	R01 GM	22562-06	64,110	82
** 1 TOTAL									64,110	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	COLLEGE OF STATEN ISLD ST. GEORGE CAMPUS								
NAIDER, FRED R	PEPTIDE-CELL INTERACTIONS IN SACCHAROMYCES CEREVISIAE								
CHEMISTRY	PB		05-01-82 04-30-83	1	22300	5	R01 GM 22086-08	72,882	82
** 1 TOTAL								72,882	
NEW YORK	COLUMBIA UNIVERSITY								
BAYLEY, HAGAN P	PROTEIN TOPOGRAPHY IN TRANSIENT MEMBRANCE STATES								
BIOCHEMISTRY	BBCA		02-01-82 01-31-83	2	22300	1	R01 GM 29758-01	89,208	82
BERNE, BRUCE J	MOLECULAR DYNAMICS OF AQUEOUS SOLUTIONS								
CHEMISTRY	BBCA		05-01-82 04-30-83	4	22600	2	R01 GM 26588-07	97,929	82
BERSOHN, RICHARD	BIFUNCTIONAL STUDIES OF PROTEINS								
CHEMISTRY	BMT		05-01-81 10-31-82	0	22500	5	R01 GM 19019-18	73,376	81
BRESLOW, RONALD C	MODEL AND MECHANISM STUDIES ON ZINC ENZYMES								
CHEMISTRY	BMT		12-01-81 11-30-82	0	11920	5	R01 GM 25981-04	128,063	82
BRESLOW, RONALD C	BIOCHEMICAL MODEL REACTIONS								
CHEMISTRY	MCHA		01-01-82 12-31-82	3	11920	5	R01 GM 18754-21	186,382	82
CANTOR, CHARLES R	NEW TECHNIQUES FOR COMPLEX MACROMOLECULAR ASSEMBLIES								
CHEMISTRY	BBCA		02-01-82 01-31-83	2	21100	5	R01 GM 14825-16	144,756	82
CANTOR, CHARLES R	STRUCTURAL ORGANIZATION OF RIBOSOMES AND LARGE RNAS								
CHEMISTRY	BBCA		12-01-81 11-30-82	4	21320	2	R01 GM 19843-10	147,359	82
CHALFIE, MARTIN	GENETIC ANALYSIS OF NEMATODE CELL DIFFERENTIATION								
BIOLOGICAL SCIENCES	GEN		08-01-82 07-31-83	2	21700	1	R01 GM 30997-01	121,142	82
CHASIN, LAWRENCE A	FINE STRUCTURE MAPPING OF MUTATIONS IN MAMMALIAN CELLS								
BIOLOGICAL SCIENCES	MGN		09-01-82 08-31-83	1	21480	5	R01 GM 22629-08	188,808	82
ELWYN, DAVID H	COMPOSITION OF WEIGHT GAIN IN SURGICAL PATIENTS								
SURGERY	NTN		08-01-82 07-31-83	0	13420	5	R01 GM 26396-04	105,491	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	COLUMBIA UNIVERSITY								
FIGURSKI, DAVID H	GENE REGULATION IN BROAD HOST RANGE PLASMIDS								
MICROBIOLOGY	MG		04-01-82 03-31-83	1	21750	5	R01 GM 29085-02	103,523	82
FIGURSKI, DAVID H	REPRODUCTION OF EXTRACHROMOSOMAL ELEMENTS IN BACTERIA								
MICROBIOLOGY	MG		09-15-82 08-31-83	2	21750	2	R01 GM 26863-04	105,465	82
FINCK, A DONALD	ROLE OF ENDORPHINS IN ANESTHETIC-INDUCED ANALGESIA								
ANESTHESIOLOGY	NEUA		04-01-82 03-31-83	0	13200	5	R01 GM 26407-03	88,744	82
GOODMAN, REBA	DNA METHYLATION AND DIPTERAN DIFFERENTIATION								
PATHOLOGY	GEN		09-20-82 08-31-83	2	21700	1	R01 GM 29722-01	107,237	82
GUMP, FRANK E	REGIONAL METABOLISM IN SEPSIS								
SURGERY	SAT		04-01-82 03-31-83	2	13420	2	R01 GM 26433-04	157,121	82
HONIG, BARRY H	COMPUTER STUDIES OF PROTEIN STRUCTURE AND FUNCTION								
BIOCHEMISTRY	BBCA		09-01-82 08-31-83	1	22600	5	R01 GM 30518-02	89,228	82
LEONARD, EDWARD F	TECHNOLOGY OF THERAPEUTIC MEMBRANE PLASMAPHERESIS								
CHEMICAL ENGINEERING	SB		02-01-82 01-31-83	2	12820	1	R01 GM 30205-01	124,256	82
LIPPARD, STEPHEN J	LIGAND-BRIDGED BINUCLEAR METAL COMPLEXES AND PROTEINS								
CHEMISTRY	SSS		09-01-82 08-31-83	0	22500	5	R01 GM 16449-15	120,033	82
MAKOWSKI, LEE	STRUCTURAL STUDIES OF VIRUSES AND MEMBRANES								
BIOCHEMISTRY	BBCB		04-01-82 03-31-83	1	22550	5	R01 GM 29829-02	103,398	82
MANLEY, JAMES L	CONTROL OF MRNA SYNTHESIS IN MAMMALIAN CELLS								
BIOLOGICAL SCIENCES	MBY		04-01-82 03-31-83	1	21750	5	R01 GM 28983-02	97,198	82
MATTEO, RICHARD S	PHARMACOKINETICS, MUSCLE RELAXANTS & ANTAGONISTS								
ANESTHESIOLOGY	SAT		07-01-82 06-30-83	2	13200	2	R01 GM 26745-04	84,534	82
MEARS, JOHN G	REGULATION OF HUMAN GLOBIN GENE EXPRESSION								
MEDICINE	MBY		07-01-82 06-30-83	0	21750	7	R01 GM 31696-01	125,404	82
MILLER, ORLANDO J	ANTIBODY PROBES OF CHROMOSOME STRUCTURE								
HUMAN GENETICS AND DEVELOPMENT	MGN		04-01-82 03-31-83	1	21480	5	R01 GM 25193-05	137,075	82
MORISHIMA, HISAYO O	DRUG RESPONSES IN FETAL IMMATURITY AND/OR ASPHYXIA								
ANESTHESIOLOGY	PHRA		04-01-82 03-31-83	2	11780	1	R01 GM 29571-01	173,229	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK								
NEW YORK	COLUMBIA UNIVERSITY							
MOWSHOWITZ, DEBORAH B BIOLOGICAL SCIENCES	CONTROL OF PERIODIC ENZYME SYNTHESIS IN EUKARYOTES GEN	03-01-81 02-28-83	0	21750	5	R01 GM 25137-03	53,060	81
ROBBINS, HERBERT E MATHEMATICAL STATISTICS	DESIGN OF CLINICAL TRIALS IN BIOSTATISTICS SSS	07-01-82 06-30-83	0	12100	5	R01 GM 27976-03	92,632	82
SQUIRES, CATHERINE L BIOLOGICAL SCIENCES	FUSION OF THE RIBOSOMAL RNA PROMOTOR TO OTHER OPERONS MBC	04-01-82 03-31-83	1	21750	5	R01 GM 24751-06	99,034	82
SQUIRES, CATHERINE L BIOLOGICAL SCIENCES	TOTAL DNA SEQUENCES OF RIBOSOMAL RNA CISTRONS MG	04-01-82 03-31-83	3	21600	5	R01 GM 25178-05	146,086	82
STORK, GILBERT CHEMISTRY	SYNTHESIS OF BIOLOGICALLY ACTIVE NATURAL PRODUCTS MCHA	09-01-82 08-31-83	2	11910	5	R01 GM 05147-26	219,278	82
TZAGOLOFF, ALEXANDER A BIOLOGICAL SCIENCES	BIOSYNTHESIS OF CYTOCHROME OXIDASE BIO	09-01-82 08-31-83	0	22450	5	R01 GM 25250-06	60,215	82
VAN RYZIN, JOHN R BIOSTATISTICS	STATISTICAL INFERENCE FOR CENSORED SURVIVAL DATA SSS	04-01-82 03-31-83	1	12100	5	R01 GM 28405-03	76,808	82
WALLACE, BONNIE A BIOCHEMISTRY	STRUCTURAL BASIS OF MEMBRANE PROTEIN FUNCTIONS BBCA	12-01-81 11-30-82	1	22300	5	R01 GM 27292-03	64,129	82
YANG, JOSEPH C ANESTHESIOLOGY	ANALGESICS IN EXPERIMENTAL AND CLINICAL PAIN NEUA	07-01-82 06-30-83	0	13700	5	R01 GM 26461-04	60,983	82
YOUNG, CHARLES S MICROBIOLOGY	THE MECHANISMS OF ADENOVIRUS RECOMBINATION VR	05-01-82 04-30-83	2	21200	9	R01 GM 31452-04	104,493	82
ZUBAY, GEOFFREY L BIOLOGICAL SCIENCES	TRANSCRIPTIONAL CONTROL IN INFECTIOUS PLASMIDS MBC	09-01-82 08-31-83	0	21780	5	R01 GM 29217-06	108,535	82
** 35 TOTAL							3,984,212	

READEX FICHE

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	CORNELL UNIVERSITY MEDICAL CENTER								
ANDERSEN, OLAF S PHYSIOLOGY AND BIOPHYSICS	CHANNEL-MEDIATED ION TRANSPORT ACROSS LIPID BILAYERS PHY		06-01-82 05-31-83	3	22300	5	R01 GM 21342-09	124,427	82
BRESLOW, ESTHER M BIOCHEMISTRY	INTERACTIONS OF PROTEINS BBCB		01-01-81 12-31-82	0	22500	5	R01 GM 17528-25	122,296	81
DAVIS, JOHN M SURGERY	IMPAIRED HOST DEFENSE MECHANISMS IN SHOCK SAT		02-01-82 01-31-83	2	13450	1	R23 GM 30086-01	50,840	82
HASCHEMEYER, RUDY H BIOCHEMISTRY	BIOPHYSICAL FLUX METHODS: THEORY AND APPLICATIONS BBCA		02-01-82 01-31-83	2	22600	1	R01 GM 30282-01	35,826	82
HASCHEMEYER, RUDY H BIOCHEMISTRY	GAMMA-GLUTAMYL TRANSPEPTIDASE--MEMBRANE BOUND ENZYMES BBCB		12-01-80 11-30-82	0	22300	5	R01 GM 25152-03	74,838	81
HEINZ, ERICH PHYSIOLOGY AND BIOPHYSICS	MECHANISM AND FUNCTION OF PROTON FLOWS IN ANIMAL CELLS PHY		09-01-82 08-31-83	1	22300	5	R01 GM 26554-05	76,920	82
LEVI, ROBERTO PHARMACOLOGY	CARDIAC DYSFUNCTIONS CAUSED BY HISTAMINE RELEASE PHRA		06-01-82 05-31-83	2	11770	5	R01 GM 20091-08	141,478	82
SHIRES, G THOMAS SURGERY	BURN AND TRAUMA RESEARCH CENTER SRC		04-01-82 03-31-83	1	13300	*5	P50 GM 26145-04	363,807	82
SHIRES, GEORGE T SURGERY	EVALUATION OF SALINE SOLUTIONS IN THERAPY OF SHOCK SAT		07-01-82 06-30-83	3	13420	5	R01 GM 23000-07	119,333	82
** 9 TOTAL								1,109,765	
NEW YORK	DOWNSTATE MEDICAL CENTER								
FRIEDMAN, STANLEY PHARMACOLOGY	THE EFFECT OF 5-AZACYTIDINE ON THE METHYLATION OF DNA MBC		04-01-81 03-31-83	0	21100	5	R01 GM 27787-02	60,312	81
LANKS, KARL W PATHOLOGY	PROTEIN SYNTHESIS CONTROL IN NON-PROLIFERATING CELLS CTY		01-01-82 12-31-82	0	21320	5	R01 GM 26167-03	84,010	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK										
NEW YORK	DOWNSTATE MEDICAL CENTER									
OJAKIAN, GEORGE K	FREEZE-ETCH STUDIES OF DEVELOPING TIGHT JUNCTIONS									
ANATOMY AND CELL BIOLOGY	CBY		04-01-80 03-31-83	0	22300	5	R01 GM	25125-03	47,421	80
OJAKIAN, GEORGE K	FREEZE-FRACTURE ELECTRON MICROSCOPY									
ANATOMY AND CELL BIOLOGY	SSS		04-01-80 03-31-83	0	22300	3	R01 GM	25125-03S1	82,500	80
SILVERSTEIN, EMANUEL	ENZYME MECHANISM AND CONTROL									
MEDICINE	BIO		12-01-80 11-30-82	0	22400	5	R01 GM	18453-08	76,747	81
** 4 TOTAL									350,990	
NEW YORK	HUNTER COLLEGE									
BARTON, JACQUELINE K	ROLE OF ZINC IN A DNA ENZYME									
CHEMISTRY	BMT		07-01-82 06-30-83	2	21200	1	R01 GM	31213-01	95,669	82
BEVERIDGE, DAVID L	SOLVENT EFFECTS ON BIOMOLECULAR STRUCTURE AND PROCESS									
CHEMISTRY	BBCB		06-01-82 05-31-83	1	22600	5	R01 GM	24914-08	149,453	82
DIEM, MAX	NOVEL PROBES FOR SOLUTION CONFORMATION OF PEPTIDES									
CHEMISTRY	BBCA		02-01-82 01-31-83	2	22500	1	R01 GM	28619-01A1	85,013	82
KRAKOW, JOSEPH S	STUDIES ON THE CYCLIC AMP RECEPTOR PROTEIN OF E. COLI									
BIOLOGICAL SCIENCES	MBC		04-01-82 03-31-83	2	21750	5	R01 GM	22619-07	83,615	82
KRAKOW, JOSEPH S	RNA SYNTHESIS BY BACTERIAL RNA POLYMERASE									
BIOLOGICAL SCIENCES	PC		12-01-81 11-30-82	1	21310	5	R01 GM	18673-11	121,760	82
LAVALLEE, DAVID K	MODELS FOR STUDY OF METALLOPROTEIN REDOX MECHANISMS									
CHEMISTRY	BMT		06-01-82 05-31-83	1	11920	5	R01 GM	27179-02	49,810	82
LICHTER, ROBERT L	NATURAL-ABUNDANCE 15N NMR OF BIOORGANIC COMPOUNDS									
CHEMISTRY	BBCB		12-01-80 11-30-82	0	11940	5	R01 GM	21148-06	83,254	81
RUDNER, RIVKA	MACROMOLECULAR ASPECTS OF SYNCHRONOUS CELL DIVISION									
BIOLOGICAL SCIENCES	MBC		12-01-80 11-30-82	0	21250	5	R01 GM	16059-12	76,146	81

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK											
NEW YORK			HUNTER COLLEGE								
SWEENEY, WILLIAM V / CHEMISTRY			IRON-SULFUR PROTEINS								
	BMT		12-01-81	11-30-82	0	22450	5	R01 GM	27382-03	49,600	82
** 9 TOTAL										794,320	
NEW YORK			INSTITUTE FOR BASIC RES IN DEV DISABIL								
BROCKERHOFF, HANS / NEUROCHEMISTRY			ROLE OF CHOLESTEROL IN BIOLOGICAL MEMBRANES								
	BBCB		09-15-82	08-31-83	4	22300	2	R01 GM	21875-07	105,475	82
MILLER, DAVID L / MOLECULAR BIOLOGY			STRUCTURE & FUNCTION OF PEPTIDE CHAIN ELONGATION FACTOR								
	MG		09-01-82	08-31-83	3	21320	1	R01 GM	30800-01	89,885	82
** 2 TOTAL										195,360	
NEW YORK			MONTEFIORE HOSPITAL AND MEDICAL CENTER								
SAENGER, PAUL H / PEDIATRICS			NON-INVASIVE METHODS FOR STUDY OF DRUG METABOLISM								
	PHRA		05-01-81	10-31-82	0	11760	5	R01 GM	27259-03	86,418	81
** 1 TOTAL										86,418	
NEW YORK			MOUNT SINAI SCHOOL OF MEDICINE								
CALHOUN, DAVID H / MICROBIOLOGY			CONTROL OF GENE EXPRESSION BY AN ALLOSTERIC ENZYME								
	MBC		07-01-82	06-30-83	1	21750	5	R01 GM	23182-07	67,095	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	MOUNT SINAI SCHOOL OF MEDICINE								
GLASS, JOHN D PHYSIOLOGY AND BIOPHYSICS	SOLID-PHASE PEPTIDE SYNTHESIS IN ORGANIC SOLVENT MEDIA MCHA		09-01-82 08-31-83	2	11440	2	R01 GM 18752-09A1	115,342	82
HIRSCHHORN, KURT PEDIATRICS	STUDIES OF INHERITED STORAGE DISEASES IN CELL CULTURE MGN		08-01-82 07-31-83	0	21400	5	R01 GM 28762-03	200,570	82
KRULWICH, TERRY A BIOCHEMISTRY	ATP SYNTHESIS AT LOW PROTONMOTIVE FORCES MBC		09-01-82 08-31-83	1	22450	5	R01 GM 28454-02	97,087	82
WETMUR, JAMES G MICROBIOLOGY	RENATURATION AND HYBRIDIZATION OF NUCLEIC ACIDS BBCA		09-01-82 08-31-83	0	21100	5	R01 GM 22029-09	68,007	82
** 5 TOTAL								548,101	
NEW YORK	NEW YORK BLOOD CENTER								
FALK, CATHERINE T LAB OF IMMUNOGENETICS	LINKAGE AND ASSOCIATION OF GENETIC MARKERS AND DISEASE MGN		04-01-82 03-31-83	1	21480	5	R01 GM 29177-02	96,225	82
REDMAN, COLVIN M MEMBRANE BIOCHEMISTRY	BIOGENESIS OF ERYTHROCTYE MEMBRANE PROTEINS CTY		09-01-82 08-31-83	2	22300	1	R01 GM 28559-01A1	97,497	82
** 2 TOTAL								193,722	
NEW YORK	NEW YORK UNIVERSITY								
ADESNIK, MILTON B CELL BIOLOGY	STRUCTURE AND REGULATION OF CYTOCHROME P-450 GENES MGN		02-01-82 01-31-83	2	11760	1	R01 GM 30701-01	151,028	82
COWAN, NICHOLAS J BIOCHEMISTRY	STRUCTURE AND EXPRESSION OF HUMAN TUBULIN GENES MGN		09-01-82 08-31-83	2	21400	1	R01 GM 31740-01	128,279	82

NEW YORK

NEW YORK

NEW YORK UNIVERSITY

INVESTIGATOR	DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
JELINEK, WARREN R	BIOCHEMISTRY	MOBILE DISPERSED REPEATS & THEIR RNAS IN MAMMALS	MGN		08-01-82	07-31-83	2	21600	2	R01 GM 30363-02	163,497	82
KEITH, JERRY M	BIOCHEMISTRY	VIRAL /CELLULAR MRNA POST-TRANSCRIPTIONAL PROCESSING	BIO		04-01-82	03-31-83	1	21320	5	R01 GM 29124-02	75,077	82
KLEIN, HANNAH L	BIOCHEMISTRY	GENETIC BEHAVIOR OF REPEATED SEQUENCES	GEN		05-01-82	04-30-83	2	21600	1	R01 GM 30439-01	106,665	82
KREIBICH, GERT	CELL BIOLOGY	ORGANIZATION AND BIOSYNTHESIS OF ER MEMBRANE PROTEINS	MBY		02-01-82	01-31-83	4	22300	2	R01 GM 21971-08	164,447	82
MAAS, WERNER K	MICROBIOLOGY	REGULATION OF ENZYME SYNTHESIS IN BACTERIA	MBC		01-01-82	12-31-82	1	21750	5	R01 GM 06048-24	109,299	82
MC FALL, ELIZABETH	MICROBIOLOGY	STUDIES ON CONTROL MECHANISMS IN ENZYME BIOSYNTHESIS	GEN		01-01-82	12-31-82	2	21750	5	R01 GM 11899-19	114,031	82
RUDY, BERNARDO	PHYSIOLOGY AND BIOPHYSICS	ANALYSIS OF VOLTAGE-DEPENDENT CHANNELS IN VITRO	BBCB		07-01-81	03-31-83	0	22300	5	R01 GM 26976-03	68,923	81
SABATINI, DAVID D	CELL BIOLOGY	ATTACHMENT OF RIBOSOMES TO MICROSOMAL MEMBRANES	MBY		01-01-82	12-31-82	4	22300	2	R01 GM 20277-10	266,509	82
SHAPIRO, ROBERT	CHEMISTRY	DAMAGED DNA: THE STRUCTURE OF DNA CROSS-LINKS	BIO		09-01-82	08-31-83	0	21250	5	R01 GM 20176-10	78,225	82
SMITH, PHILLIP R	CELL BIOLOGY	BIOLOGICAL STRUCTURAL STUDIES USING IMAGE PROCESSING	BBCB		07-01-82	06-30-83	4	12930	2	R01 GM 26723-04	136,894	82
SZER, WLODZIMIERZ	BIOCHEMISTRY	REGULATORY MECHANISMS IN PROTEIN BIOSYNTHESIS	MBY		06-01-82	05-31-83	3	21320	5	R01 GM 23705-10	111,712	82
THOMAS, JOHN O	BIOCHEMISTRY	STRUCTURE AND FUNCTION OF THE NUCLEAR RNP COMPLEXES	PC		12-01-81	11-30-82	1	21600	5	R01 GM 28747-02	66,302	82
WOLF, GEORGE	PSYCHOLOGY	BRAIN LESIONS AND SALT APPETITE: A NEUROBEHAVIORAL SYSTE	BPO		05-01-82	04-30-83	1	13700	5	R01 GM 30777-02	71,729	82
ZADUNAISKY, JOSE A	PHYSIOLOGY AND BIOPHYSICS	CHLORIDE TRANSPORT AND OSMOREGULATION	PHY		04-01-82	03-31-83	0	22300	5	R01 GM 25002-05	80,567	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	NEW YORK UNIVERSITY								
ZIFF, EDWARD B	ADENOVIRUS-2 MESSENGER RNA SYNTHESIS STRUCTURAL STUDIES								
BIOCHEMISTRY	VR		09-01-82 08-31-83	3	21750	5	R01 GM 30760-02	123,893	82
** 17 TOTAL								2,017,077	
NEW YORK	NEW YORK ZOOLOGICAL SOCIETY								
KALLMAN, KLAUS D	THE GENETIC CONTROL OF SEXUAL MATURITY IN FISH								
GENETICS LABORATORY	GEN		07-01-82 06-30-83	0	21700	5	R01 GM 19934-20	80,615	82
** 1 TOTAL								80,615	
NEW YORK	POLYTECHNIC INSTITUTE OF NEW YORK								
GREEN, MARK R	DYNAMIC STEREOCHEMISTRY								
CHEMISTRY	MCHB		05-01-81 11-30-82	0	11940	5	R01 GM 28497-02	64,602	81
MORAWETZ, HERBERT	SYNTHETIC POLYMER STUDIES RELATED TO BIOLOGY								
CHEMISTRY	BBCB		07-01-82 06-30-83	0	11920	5	R01 GM 05811-22	75,328	82
** 2 TOTAL								139,930	
NEW YORK	PUBLIC HLTH RES INST OF THE CITY OF NY								
BHANOT, OPINDER S	MOLECULAR MECHANISMS OF MUTATIONS BY AP-SITE								
GENETICS	MG		08-01-82 07-31-83	2	21250	1	R01 GM 31788-01	125,675	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	PUBLIC HLTH RES INST OF THE CITY OF NY								
LUSTY, CAROL J NONE	GENE STRUCTURE OF CARBAMYL PHOSPHATE SYNTHETASE MBY	04-01-82 03-31-83	2	21750	2	R01 GM	25846-03	112,641	82
MARGOLIN, PAUL GENETICS	MUTATION AND SUPPRESSOR STUDIES OF A BACTERIAL GENE MG	06-01-82 05-31-83	1	21250	5	R01 GM	15255-17	168,597	82
MINDICH, LEONARD E MICROBIOLOGY	CELL MEMBRANE SYNTHESIS IN THE CONTROL OF GROWTH MBC	08-01-82 07-31-83	4	22300	9	R01 GM	31709-16	168,161	82
MURPHY, ELLEN PLASMID BIOLOGY	SITE SPECIFIC RECOMBINATION IN STAPHYLOCOCCUS AUREUS MBC	12-01-81 11-30-82	0	21780	5	R01 GM	27253-03	79,462	82
NOVICK, RICHARD P NONE	MOLECULAR BIOLOGY OF BACTERIAL PLASMIDS MG	12-01-81 11-30-82	4	21200	2	R01 GM	14372-16	146,355	82
PENEFSKY, HARVEY S BIOCHEMISTRY	MITOCHONDRIAL MEMBRANE AND OXIDATIVE PHOSPHORYLATION BIO	01-01-82 12-31-82	2	22450	5	R01 GM	21737-16	129,118	82
PULLMAN, MAYNARD E BIOCHEMISTRY	ROLE OF ATPASE INHIBITOR IN OXIDATIVE PHOSPHORYLATION BIO	12-01-81 11-30-82	2	22450	5	R01 GM	26924-03	80,998	82
SMITH, ISSAR MICROBIOLOGY	REGULATORY MECHANISMS IN RIBOSOME BIOSYNTHESIS MBC	06-01-82 05-31-83	1	21320	5	R01 GM	19693-09	96,863	82
SMITH, ISSAR MICROBIOLOGY	GENETICS OF THE B SUBTILIS TRANSLATIONAL APPARATUS MBC	07-01-82 06-30-83	0	21750	5	R01 GM	28407-11	87,643	82
WECHSLER, JAMES A PLASMID BIOLOGY	CONTROL OF NORMAL AND ABNORMAL CHROMOSOME GROWTH MG	01-01-82 12-31-82	1	21200	5	R01 GM	29535-02	123,103	82
** 11 TOTAL								1,318,616	
NEW YORK	QUEENS COLLEGE								
ENGEL, ROBERT R CHEMISTRY	A CHEMICAL APPROACH TO GENETIC REGULATION MCHA	01-01-82 12-31-82	0	21100	5	R01 GM	26988-03	88,108	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	QUEENS COLLEGE								
MICHELS, CORINNE A	YEAST--A MODEL FOR STUDYING REGULATION IN CANCER CELLS								
BIOLOGY	GEN		07-01-82 06-30-83	0	21750	5	R01 GM 28216-08	138,744	82
STREKAS, THOMAS C	REDOX EFFECTS OF AXIAL LIGAND BONDING IN CYTOCHROMES								
CHEMISTRY	BMT		12-01-81 11-30-82	0	22450	5	R01 GM 27065-03	65,410	82
** 3 TOTAL								292,262	
NEW YORK	RIVERSIDE RESEARCH INSTITUTE								
LIZZI, FREDERIC L	ADVANCED CLINICAL ULTRASONIC TISSUE CHARACTERIZATION								
BIOMEDICAL ENGINEERING LAB	RNM		02-01-82 01-31-83	1	12910	5	R01 GM 26850-03	285,504	82
** 1 TOTAL								285,504	
NEW YORK	ROCKEFELLER UNIVERSITY								
ALLFREY, VINCENT G	CHEMISTRY AND METABOLISM OF DNA-ASSOCIATED PROTEINS								
CELL BIOLOGY	SSS		02-01-82 01-31-83	3	21600	5	R01 GM 17383-12	118,112	82
BLOBEL, GUNTER K	TRANSLOCATION OF PROTEINS ACROSS MEMBRANES								
CELL BIOLOGY	MBY		12-01-81 11-30-82	2	22300	5	R01 GM 27155-03	286,612	82
CASHMORE, ANTHONY R	SEQUENCES ENCODING THE SMALL SUBUNIT OF RUBP CARBOXYLASE								
CELL BIOLOGY	MBY		08-01-82 07-31-83	2	21750	1	R01 GM 31137-01	94,451	82
CHUA, NAM-HAI	TRANSFER OF PROTEINS INTO ORGANELLES								
CELL BIOLOGY	MBY		04-01-82 03-31-83	0	22300	5	R01 GM 25114-05	160,108	82
CHUA, NAM-HAI	GENE STRUCTURE AND REGULATION								
MOLECULAR CELL BIOLOGY	GEN		05-01-82 04-30-83	4	21280	1	R01 GM 30726-01	137,108	82

NEW YORK

NEW YORK

ROCKEFELLER UNIVERSITY

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
FISHER, PAUL A CELL BIOLOGY	THE MOLECULAR BIOLOGY OF THE NUCLEAR ENVELOPE	CTY		02-01-82	01-31-83	2	22300	1	R01 GM 30245-01	130,502	82
HUH, MARTIN M CELLULAR BIOCHEMISTRY & PHARM	PHARMACOLOGY OF BIOGENIC AMINE METHYLTRANSFERASES	PHRA		04-01-81	03-31-83	0	11860	5	R01 GM 24844-05	88,002	81
JAZWINSKI, S MICHAL DEVELOPMTL & MOLECULAR BIOLOGY	BIOCHEMICAL ANALYSIS OF CELL CYCLE CONTROLS	MBY		08-01-82	07-31-83	0	21200	5	R01 GM 28099-03	104,540	82
LIPMANN, FRITZ BIOSYNTHESIS	GLUCOSE AND PHOSPHATE METABOLISM IN NORMAL AND MALIGNANT	PC		09-01-82	08-31-83	0	22300	5	R01 GM 13972-17	142,624	82
LIZARDI, PAUL M CELL BIOLOGY	CHARACTERIZATION OF THE SMALL NUCLEAR RNA'S OF B MORI	MBY		04-01-82	03-31-83	1	21600	5	R01 GM 28986-02	89,969	82
LUCK, DAVID J CELL BIOLOGY	BIOCHEMICAL GENETICS OF MICROTUBULES	GEN		09-01-82	08-31-83	2	22250	5	R01 GM 17132-14	187,439	82
MAUZERALL, DAVID BIOCHEMISTRY	CHARGE TRANSFER ACROSS INTERFACES OF BIOLOGICAL SYSTEMS	BBCA		07-01-82	06-30-83	1	22300	5	R01 GM 25693-05	104,576	82
MOORE, STANFORD BIOCHEMISTRY	BIOCHEMISTRY OF NUCLEASES	PBC		07-01-82	06-30-83	0	22400	5	R01 GM 25323-05	127,655	82
NEVINS, JOSEPH R MOLECULAR CELL BIOLOGY	CELLULAR & ADENOVIVRUS GENE EXPRESSION	MBY		07-01-82	06-30-83	2	21750	2	R01 GM 26765-04	110,869	82
PIPERNO, GIANNI CELL BIOLOGY	MICROTUBULES OF MITOTIC APPARATUS	CBY		02-01-82	01-31-83	1	22250	5	R01 GM 28702-02	79,720	82
REEKE, GEORGE N, JR DEVELOPMTL & MOLECULAR BIOLOGY	COMPUTING METHODS FOR MACROMOLECULAR CYSTALLOGRAPHY	BBCB		09-01-82	08-31-83	1	22550	5	R01 GM 22663-08	67,198	82
ROBERTSON, HUGH D GENETICS	THE ROLE OF RNA IN THE REGULATION OF GENE EXPRESSION	VR		08-01-82	07-31-83	0	21320	5	R01 GM 28294-03	111,116	82
ROBERTSON, HUGH D GENETICS	RNA PROCESSING ENZYMES IN HELA CELLS	PBC		04-01-82	03-31-83	0	21320	5	R01 GM 27168-03	47,755	82
YOUNG, MICHAEL W GENETICS	GENE ORGANIZATION AND FUNCTION IN D. MELANOGASTER	GEN		04-01-82	03-31-83	1	21600	5	R01 GM 25103-05	96,728	82
** 19 TOTAL										2,285,084	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK											
NEW YORK	SLOAN-KETTERING INSTITUTE FOR CANCER RES										
BANCROFT, F CARTER / CELLULAR GENE EXPRESS AND REG	REGULATION OF GROWTH HORMONE MESSENGER RNA	MBY		01-01-82	12-31-82	3	21750	5	R01 GM 24442-05	144,757	82
DE HARVEN, ETIENNE / BIOLOGICAL ULTRASTRUCTURE LAB	GM1 IN MYOBLAST DIFFERENTIATION AND TRANSFORMATION	CBY		12-01-81	11-30-82	0	22300	5	R01 GM 27733-02	23,902	82
HAMILTON, MARY G / PHYSICAL BIOCHEMISTRY	SUBFRACTIONATION OF RAT LIVER RIBOSOMAL SUBUNITS	BBCA		01-01-81	12-31-82	0	21320	5	R01 GM 24981-03	67,791	81
LITMAN, GARY W / MACROMOLECULAR BIOCHEMISTRY	UNIQUE HISTONE-LIKE CHROMOSOMAL PROTEIN	BIO		07-01-82	06-30-83	0	21600	5	R01 GM 28348-03	68,970	82
SONENBERG, MARTIN / NONE	ION TRANSPORT IN HORMONAL RESPONSIVENESS	SSS		07-01-81	06-30-83	0	22300	5	R01 GM 27612-07	109,582	81
** 5 TOTAL										415,002	
NEW YORK	YESHIVA UNIVERSITY										
BLUMENFELD, OLGA O / BIOCHEMISTRY	PROTEINS OF THE CELL MEMBRANE	CTY		01-01-82	12-31-82	2	22410	2	R01 GM 16389-13	157,200	82
CHASE, JOHN W / MOLECULAR BIOLOGY	BIOCHEMICAL STUDIES OF E COLI EXONUCLEASE 7	BIO		01-01-82	12-31-82	3	21200	5	R01 GM 23451-05	66,235	82
CHILDS, GEOFFREY J / GENETICS	MOBILIZATION OF TANDEM REPETITIVE GENE FAMILIES	GEN		02-01-82	01-31-83	2	21780	1	R01 GM 30333-01	131,162	82
CLARKE, MARGARET / MOLECULAR BIOLOGY	CHEMISTRY AND FUNCTION OF DICTYOSTELIUM CALMODULIN	CTY		07-01-82	06-30-83	1	22250	5	R01 GM 29723-02	119,299	82
CONDEELIS, JOHN S / ANATOMY	INTERACTIONS OF ACTIN CYTOSKELETON WITH PLASMA MEMBRANE	CBY		12-01-81	11-30-82	4	22250	2	R01 GM 25813-04	121,255	82
EMMONS, SCOTT W / MOLECULAR BIOLOGY	GENOME STRUCTURE AND FUNCTION IN THE NEMATODE CAENORHABD	GEN		04-01-82	03-31-83	1	21700	5	R01 GM 29178-02	122,087	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	YESHIVA UNIVERSITY								
FINKELSTEIN, ALAN PHYSIOLOGY	INTERACTION OF MODEL SYNAPTIC VESICLES WITH LIPID BILAY PHY		01-01-82 12-31-82	3	22300	5 R01 GM	29210-05	183,777	82
GLUECKSOHN-WAELSCH, SALOME GENETICS	GENETIC CONTROL OF MAMMALIAN DIFFERENTIATION MGN		04-01-82 03-31-83	0	21700	5 R01 GM	27250-27	240,470	82
HEHRE, EDWARD J MICROBIOLOGY AND IMMUNOLOGY	SCOPE AND MECHANISM OF ENZYME-CATALYZED GLYCOSYLATION BIO		09-01-82 08-31-83	4	22400	2 R01 GM	25478-04	132,188	82
HENRY, SUSAN A GENETICS	GENETICS AND DEVELOPMENT OF YEAST MEMBRANE MUTANTS GEN		09-01-82 08-31-83	3	22300	5 R01 GM	19629-11	232,213	82
HURWITZ, JERARD DEVELOPMENTAL BIOLOGY & CANCER	STUDIES OF MACROMOLECULAR ALTERATION AND SYNTHESIS PC		12-01-81 11-30-82	3	21200	5 R01 GM	13344-17	258,086	82
HURWITZ, JERARD DEVELOPMENTAL BIOLOGY & CANCER	STUDIES ON PROCARYOTIC AND EUCARYOTIC DNA REPLICATION SSS		07-01-82 11-30-82	1	21200	3 R01 GM	13344-17S1	40,381	82
KARMEN, ARTHUR LABORATORY MEDICINE	MICROANALYSIS USING GAS CHROMATOGRAPHY BMT		12-01-80 11-30-82	0	12820	5 R01 GM	19478-07	102,633	81
LEINWAND, LESLIE A MICROBIOLOGY AND IMMUNOLOGY	STUDY OF A HIGHLY ABUDNDANT SMALL RNA MOLECULE SSS		09-01-82 08-31-83	1	21600	5 R01 GM	29090-02	136,313	82
LEVENSON, STANLEY M SURGERY	BURN DEBRIDEMENT: CHEMICAL, ENZYMATIC SAT		07-01-82 06-30-83	2	13420	5 R01 GM	19328-11	205,812	82
MAITRA, UMADAS DEVELOPMENTAL BIOLOGY & CANCER	ENZYMATIC SYNTHESIS OF BIOLOGICALLY ACTIVE MACROMOLECULE MBY		05-01-82 04-30-83	1	21320	5 R01 GM	15399-14	183,811	82
MARMUR, JULIUS BIOCHEMISTRY	REGULATION OF GENE EXPRESSION IN YEAST SSS		03-01-82 02-28-83	1	21750	5 R01 GM	28572-02	246,668	82
MIDELFORT, CHRISTIAN F BIOCHEMISTRY	OXYGEN LABELING STUDIES IN ATP DEPENDENT ENZYMES PB		01-01-82 12-31-82	2	22400	5 R01 GM	24667-05	106,222	82
NADAL-GINARD, BERNARDO CELL BIOLOGY	MYOSIN HEAVY CHAIN EXPRESSION IN A MUSCLE CELL LINE MBY		07-01-82 06-30-83	4	21700	1 R01 GM	31281-01	146,818	82
NITOWSKY, HAROLD M GENETICS RESEARCH CENTER	SUPPORT FOR GENETICS RESEARCH CENTER SSS		12-01-81 11-30-82	0	21917	*5 P50 GM	19100-10	682,992	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
NEW YORK	YESHIVA UNIVERSITY								
ORR, GEORGE A MOLECULAR PHARMACOLOGY	PHOSPHOLIPID ANALOGS AND MEMBRANE FUNCTION MBC		07-01-82 06-30-83	0	22300	5	R01 GM 28170-03	109,253	82
ORR, GEORGE A MOLECULAR PHARMACOLOGY	SELECTIVE RETRIEVAL OF LABELED MEMBRANE COMPONENTS CBY		04-01-82 03-31-83	0	22300	5	R01 GM 27851-03	125,635	82
PEISACH, JACK MOLECULAR PHARMACOLOGY	PULSED EPR SPECTROSCOPY OF METALLOPROTEINS SSS		08-01-82 07-31-83	2	12840	1	R01 GM 30012-01A1	294,741	82
ROSEN, ORA M MOLECULAR PHARMACOLOGY	USE OF MACROPHAGE-LIKE CELL LINES PTR		08-01-82 07-31-83	0	11770	5	R01 GM 29042-03	238,075	82
RUBIN, CHARLES S MOLECULAR PHARMACOLOGY	CYCLIC AMP AND PROTEIN KINASES IN CELL REGULATION BIO		04-01-82 03-31-83	2	22400	5	R01.GM 22792-06	132,208	82
SALISBURY, JEFFREY L ANATOMY	RECEPTOR-MEDIATED ENDOCYTOSIS: MACROMOLECULAR MACHINERY CP		09-01-82 08-31-83	2	22300	1	R01 GM 29321-01A1	101,500	82
SATIR, BIRGIT H ANATOMY	GENETICS OF EXOCYTOSIS IN MORTAL/IMMORTAL PROTOZOA CBY		02-01-82 01-31-83	0	22300	5	R01 GM 27298-03	110,740	82
SATIR, PETER ANATOMY	MEMBRANE-CYTOSKELETAL RELATIONSHIPS SSS		05-01-82 04-30-83	0	22300	5	P01 GM 27859-03	336,293	82
SCHILDKRAUT, CARL L CELL BIOLOGY	DNA OF NORMAL AND MALIGNANT CELLS MBY		12-01-81 11-30-82	4	21200	2	R01 GM 22332-06A1	160,132	82
SHAPIRO, LUCILLE MOLECULAR BIOLOGY	GENETIC CONTROL OF CELL GROWTH AND DEVELOPMENT SSS		06-01-82 05-31-83	2	21700	5	P01 GM 11301-20	867,943	82
SILVERMAN, PHILIP MOLECULAR BIOLOGY	ISOLEUCINE AND VALINE SYNTHESIS IN CPX MUTANTS OF E COLI MG		05-01-82 04-30-83	2	22400	1	R01 GM 30549-01	116,318	82
SPUDICH, JOHN L ANATOMY	FUNCTION OF BACTERIORHODOPSIN IN SENSORY TRANSDUCTION MBC		04-01-82 03-31-83	0	22450	5	R01 GM 27750-03	84,404	82
STEINMAN, HOWARD M BIOCHEMISTRY	SUPEROXIDE DISMUTASES: STRUCTURE, FUNCTION, EVOLUTION BIO		05-01-82 04-30-83	0	22500	5	R01 GM 24527-06	126,277	82
WARNER, JONATHAN R BIOCHEMISTRY	RIBOSOMAL PROTEIN GENES OF SACCHAROMYCES CEREVISIAE GEN		08-01-82 07-31-83	3	21750	5	R01 GM 25532-05	248,324	82
** 33 TOTAL								6,667,465	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
POTSDAM	CLARKSON COLLEGE OF TECHNOLOGY								
PETNICA, BRIAN A / CHEMISTRY	THE EFFECTS OF APPLIED ELECTRIC FIELDS ON SURFACE FILMS / BBCB		04-01-82 03-31-83	0	22300	5	R01 GM 24068-05	5,756	82
SIIMAN, OLAVI / CHEMISTRY	SURFACE-ENHANCED RAMAN SCATTERING / BMT		07-01-82 06-30-83	2	22500	1	R01 GM 30904-01	51,780	82
WILSON, G EDWIN, JR / CHEMISTRY	BINDING SITE STUDIES OF PROTEIN ELONGATION FACTORS / BBCA		09-01-80 08-31-83	0	21320	7	R01 GM 29240-01	52,858	80
** 3 TOTAL								110,394	
ROCHESTER	UNIVERSITY OF ROCHESTER								
ANGERER, ROBERT C / BIOLOGY	IN SITU LOCALIZATION OF INFORMATIONAL EMBRYO RNAS / MBY		03-01-82 02-28-83	4	21700	2	R01 GM 25553-04A1	186,735	82
BAMBARA, ROBERT A / BIOCHEMISTRY	ENZYMATIC MECHANISMS OF DNA SYNTHESIS / BIO		01-01-82 12-31-82	2	21200	2	R01 GM 24441-04	98,619	82
BELL, J ELLIS / BIOCHEMISTRY	MECHANISM AND REGULATION OF GLUTAMATE DEHYDROGENASE / FB		07-01-82 06-30-83	2	22400	1	R01 GM 30195-01A1	72,232	82
BOECKMAN, ROBERT K, JR / CHEMISTRY	METHODOLOGY FOR THE CONSTRUCTION OF COMPLEX MOLECULES / BNP		12-01-81 11-30-82	3	11940	2	R01 GM 29290-02	132,726	82
BOECKMAN, ROBERT K, JR / CHEMISTRY	SYNTHESIS OF MEDIUM RING ANTITUMOR SUBSTANCES / BNP		09-15-82 08-31-83	3	11910	1	R01 GM 30345-01	72,826	82
CARSTENSEN, EDWIN L / ELECTRICAL ENGINEERING	INTERACTION OF ULTRASOUND WITH BIOLOGICAL MATERIAL / RNM		05-01-82 04-30-83	2	12910	5	R01 GM 09933-20	119,780	82
CHRISTENSEN, JAMES R / MICROBIOLOGY	MECHANISM BY WHICH N GENE OF LAMBDA EXCLUDES PHAGE T1 / EVR		08-01-82 07-31-83	0	21750	5	R01 GM 26147-04	52,435	82
CLARKSON, THOMAS W / RADIATION BIOLOGY & BIOPHYSICS	ANTIDOTES TO HEAVY METAL POISONING / TOX		01-01-82 12-31-82	3	11790	5	R01 GM 25329-04	130,870	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
ROCHESTER	UNIVERSITY OF ROCHESTER								
DRLICA, KARL A	STRUCTURE OF THE BACTERIAL CHROMOSOME								
BIOLOGY	MG		09-01-82 08-31-83	2	21600	5	R01 GM 24320-06	117,307	82
EBERLE, HELEN I	REGULATION OF DNA REPLICATION								
RADIATION BIOLOGY & BIOPHYSICS	MG		02-01-82 01-31-83	1	21200	5	R01 GM 28430-02	95,738	82
FORSYTH, JAMES M	INSTRUMENTATION FOR FAST BIOSTRUCTURAL KINETIC STUDIES								
LAB FOR LASER ENERGETICS	SSS		02-01-81 01-31-83	0	12840	5	R01 GM 27364-02	134,898	81
GODLESKI, STEPHEN A	SYNTHESIS OF SPIROCYCLIC NATURAL PRODUCTS								
CHEMISTRY	BMT		12-01-81 11-30-82	0	11910	5	R01 GM 27328-03	60,895	82
GOROVSKY, MARTIN A	REPEATED GENES: ORGANIZATION, EVOLUTION AND FUNCTION								
BIOLOGY	GEN		02-01-82 01-31-83	2	21600	5	R01 GM 21793-08	194,205	82
GOROVSKY, MARTIN A	CONTROL OF GENE ACTIVITY AND ORGANELLE BIOGENESIS								
BIOLOGY	MBY		07-01-82 06-30-83	0	22250	5	R01 GM 26973-04	137,722	82
HATTMAN, STANLEY M	DNA MODIFICATION/RESTRICTION IN PRO- AND EUKARYOTES								
BIOLOGY	PC		09-01-82 08-31-83	0	21600	5	R01 GM 29227-11	97,315	82
HATTMAN, STANLEY M	ANALYSIS OF DNA MODIFICATION BY MASS SPECTROMETRY								
BIOLOGY	SSS		07-01-82 06-30-83	0	21100	5	R01 GM 26892-04	167,676	82
HINKLE, DAVID C	ENZYMATIC MECHANISM OF DNA REPLICATION								
BIOLOGY	BIO		06-01-82 05-31-83	4	21200	2	R01 GM 21782-07	110,927	82
HINKLE, DAVID C	ENZYMATIC MECHANISM OF YEAST DNA REPLICATION								
BIOLOGY	BIO		02-01-82 01-31-83	2	21200	1	R01 GM 29686-01	82,385	82
KREILICK, ROBERT W	STRUCTURAL STUDIES OF BIOLOGICAL METAL COMPLEXES								
CHEMISTRY	BMT		04-01-82 03-31-83	2	22500	5	R01 GM 22793-07	130,526	82
LAWRENCE, CHRISTOPHER W	RADIATION MUTAGENESIS AND REPAIR IN SACCHAROMYCES								
RADIATION BIOLOGY & BIOPHYSICS	RAD		02-01-82 01-31-83	3	21250	5	R01 GM 21858-08	152,436	82
LE CLERC, JOSEPH E	MECHANISMS OF MUTAGENESIS DURING DNA REPLICATION								
BIOCHEMISTRY	MG		04-01-82 03-31-83	2	21250	2	R01 GM 27817-03	82,446	82
MILLER, MORTON W	BIOPHYSICAL BASES OF PULSED ULTRASOUND BIOEFFECTS								
RADIATION BIOLOGY & BIOPHYSICS	RHM		05-01-82 04-30-83	2	12910	5	R01 GM 22680-08	154,481	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK								
ROCHESTER	UNIVERSITY OF ROCHESTER							
OLMSTED, JOANNA B BIOLOGY	CELLULAR CONTROL OF NEURONAL CYTOSKELETON ASSEMBLY MBY	03-01-82 02-28-83	4	22250	2	R01 GM 22214-07	133,154	82
PERACCHIA, CAMILLO PHYSIOLOGY	STRUCTURE & FUNCTION IN LOW RESISTANCE JUNCTIONS MBY	03-01-82 02-28-83	0	22300	5	R01 GM 20113-09	116,934	82
PRAKASH, LOUISE RADIATION BIOLOGY & BIOPHYSICS	REPAIR OF DNA DAMAGED BY UV IRRADIATION IN YEAST RAD	12-01-81 11-30-82	4	21250	2	R01 GM 19261-10A1	109,905	82
SCHLESSINGER, RICHARD H CHEMISTRY	TOTAL SYNTHESIS OF QUASSINOIDS MCHA	04-01-82 03-31-83	2	11910	9	R01 GM 31256-06	141,946	82
SENIOR, ALAN E BIOCHEMISTRY	STRUCTURE OF THE PROTON-ATPASE PB	09-01-82 08-31-83	3	22450	5	R01 GM 25349-05	139,341	82
SENIOR, ALAN E BIOCHEMISTRY	OSCP AND F6--TWO SUBUNITS OF MITOCHONDRIAL ATPASE PB	07-01-82 06-30-83	2	22450	1	R01 GM 29805-01	71,707	82
SHERMAN, FRED RADIATION BIOLOGY & BIOPHYSICS	GENETIC CONTROL OF CYTOCHROME C IN YEAST GEN	01-01-82 12-31-82	1	21750	5	R01 GM 12702-18	242,644	82
SOBELL, HENRY M RADIATION BIOLOGY & BIOPHYSICS	DRUG-NUCLEIC ACID CRYSTALLINE COMPLEXES SSS	08-01-82 07-31-83	1	21100	5	R01 GM 30032-02	223,397	82
TURNER, DOUGLAS H CHEMISTRY	FLUORESCENCE DETECTED CD STUDIES OF NUCLEIC ACIDS BBCA	07-01-82 06-30-83	1	21100	5	R01 GM 29374-02	29,574	82
TURNER, DOUGLAS H CHEMISTRY	KINETIC AND SPECTROSCOPIC STUDIES OF NUCLEIC ACIDS BBCA	03-01-82 02-28-83	4	21100	2	R01 GM 22939-07	165,492	82
TURNER, DOUGLAS H CHEMISTRY	LASER CROSS LINKING OF PROTEINS AND NUCLEIC ACIDS BBCA	12-01-81 11-30-82	1	21100	5	R01 GM 28533-02	40,446	82
WHEELESS, LEON L, JR PATHOLOGY	PROGRAM FOR CELL ANALYSIS AND SORTING IN BIOMEDICINE SSS	01-01-82 12-31-82	3	12990	5	P01 GM 23088-05	362,392	82
WIBERG, JOHN S RADIATION BIOLOGY & BIOPHYSICS	REGULATION OF PROTEIN SYNTHESIS BY BACTERIOPHAGE T4 VR	12-01-81 11-30-82	2	21320	5	R01 GM 21999-06	141,806	82
WILHELM, JAMES M MICROBIOLOGY	PROTEIN SYNTHESIS ERRORS IN EUKARYOTIC CELLS GEN	04-01-82 03-31-83	3	21320	5	R01 GM 25168-05	112,836	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
ROCHESTER	UNIVERSITY OF ROCHESTER								
WORCEL, ABRAHAM	PROPERTIES OF DNA-PROTEIN COMPLEXES OF D.MELANOGASTER								
BIOLOGY	CTY		12-01-81 11-30-82	0	21600	5	R01 GM 30339-02	96,418	82
WORCEL, ABRAHAM	STRUCTURE OF INTERPHASE AND METAPHASE CHROMOSOMES								
BIOLOGY	GEN		12-01-81 11-30-82	4	21600	1	R01 GM 30332-01	122,932	82
** 38 TOTAL								4,836,104	
STONY BROOK	STATE UNIVERSITY NEW YORK STONY BROOK								
ARNHEIM, NORMAN	STRUCTURE OF AN UNUSUAL MOUSE INTERSPERSED DNA SEQUENCE								
BIOCHEMISTRY	MGN		09-01-82 08-31-83	2	21600	1	R01 GM 28632-01A1	92,815	82
ARNHEIM, NORMAN	GENETIC AND MOLECULAR STUDIES OF HUMAN AND MOUSE DNA								
BIOCHEMISTRY	GEN		07-01-81 06-30-83	0	21600	5	R01 GM 25365-03	93,031	81
BAUER, WILLIAM R	VIRAL AND PLASMID DNA STRUCTURE, PROTEIN INTERACTIONS								
MICROBIOLOGY	VR		12-01-81 11-30-82	2	21100	5	R01 GM 21176-09	97,061	82
BOGENHAGEN, DANIEL F	GENETIC FUNCTIONS OF MAMMALIAN MITOCHONDRIAL DNA								
PHARMACOLOGICAL SCIENCES	PC		07-01-82 06-30-83	3	21280	5	R01 GM 29681-02	78,082	82
BROACH, JAMES R	GENE EXPRESSION OF THE YEAST PLASMID, 2 MICRON CIRCLE								
MICROBIOLOGY	GEN		09-01-82 08-31-83	4	21780	2	R01 GM 27929-04	115,595	82
COHEN, SEYMOUR S	POLYAMINES IN VIRUS INFECTION OF CHLOROPLASTS								
PHARMACOLOGICAL SCIENCES	MBC		09-15-82 08-31-83	2	21280	2	R01 GM 25522-04	93,202	82
DELIHAS, NICHOLAS	STRUCTURE AND FUNCTION OF 5S RNA IN SITU								
MICROBIOLOGY	MBY		09-01-82 08-31-83	0	21320	5	R01 GM 20052-09	43,406	82
DEWEY, MAYNARD M	LIMULUS THICK FILAMENT STRUCTURE								
ANATOMICAL SCIENCES	CBY		07-01-82 06-30-83	2	22250	2	R01 GM 26392-04	108,939	82
DUDOCK, BERNARD S	SEQUENCE ANALYSIS OF BIOLOGICALLY ALTERED TRNA								
BIOCHEMISTRY	PC		01-01-82 12-31-82	0	21320	5	R01 GM 25254-13	73,141	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK								
STONY BROOK	STATE UNIVERSITY NEW YORK STONY BROOK							
EISENBERG, MOISES / PHARMACOLOGICAL SCIENCES	VOLTAGE GATED PORES IN MEMBRANES: ALAMETHICIN / BBCB	04-01-82 03-31-83	0	22300	5	R01 GM 27756-03	48,272	82
FREUNDLICH, MARTIN / BIOCHEMISTRY	MOLECULAR MECHANISMS IN MULTIVALENT REPRESSION / MG	09-15-82 08-31-83	2	21750	2	R01 GM 17152-14	96,569	82
INOUYE, MASAYORI / BIOCHEMISTRY	CELL DIVISION AND MEMBRANE PROTEINS / MBC	01-01-82 12-31-82	2	22300	5	R01 GM 19043-11	151,485	82
INOUYE, MASAYORI / BIOCHEMISTRY	MORPHOGENESIS AND GENE EXPRESSION / MBC	04-01-82 03-31-83	0	22200	5	R01 GM 26843-03	94,084	82
KATZ, EUGENE R / MOLECULAR MICROBIOLOGY	DEVELOPMENTAL GENETIC STUDIES ON CELLULAR SLIME MOLDS / GEN	05-01-81 04-30-83	0	21700	5	R01 GM 18476-09	85,907	81
KOEHN, RICHARD K / ECOLOGY AND EVOLUTION	GENETICS AND EVOLUTION OF PHYSIOLOGICAL VARIATION / GEN	04-01-82 03-31-83	2	21800	5	R01 GM 21133-07	87,916	82
LAUTERBUR, PAUL C / CHEMISTRY	NMR AND ESR STUDIES OF OUTER MEMBRANE PROTEINS / BBCB	02-01-82 01-31-83	1	22300	5	R01 GM 28532-02	49,075	82
MALBON, CRAIG C. / PHARMACOLOGICAL SCIENCES	IMMOBILIZED FLUOROGENIC SUBSTRATES FOR PROTEASES / PC	04-01-82 03-31-83	1	22400	5	R01 GM 29220-02	70,479	82
MARCU, KENNETH B / BIOCHEMISTRY	REGULATION OF EXPRESSION OF EUKARYOTIC GENE FAMILIES / MGN	07-01-82 06-30-83	2	21750	2	R01 GM 26939-04	90,747	82
MC LAUGHLIN, STUART G / PHYSIOLOGY AND BIOPHYSICS	DIVALENT CATIONS AND MEMBRANES / BBCB	09-01-82 08-31-83	1	22300	5	R01 GM 24971-05	119,074	82
OHTSUBO, EIICHI / MICROBIOLOGY	STRUCTURE AND FUNCTION OF INSERTION AND TN ELEMENTS / MG	02-01-82 01-31-83	3	21780	5	R01 GM 22007-08	152,033	82
PALATNIK, CARL M / ANATOMICAL SCIENCES	DEVELOPMENTALLY REGULATED MRNAS IN DICTYOSTELIUM / CTY	07-01-82 06-30-83	2	21700	2	R01 GM 27652-04	133,267	82
RAMIREZ, FAUSTO / CHEMISTRY	SUPERPHOSPHORYLATING AGENTS / MCHA	07-01-82 06-30-83	0	21100	5	R01 GM 20672-22	124,181	82
RAPAPORT, FELIX T / SURGERY	MECHANISMS OF CELL DAMAGE IN SEVERE BURNS / SAT	05-01-82 04-30-83	2	13410	2	R01 GM 24481-05A1	240,462	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
STONY BROOK	STATE UNIVERSITY NEW YORK STONY BROOK								
RILEY, MONICA BIOLOGICAL SCIENCES	EVOLUTION OF THE BACTERIAL GENOME MG		08-01-82 07-31-83	0	21800	5	R01 GM 28926-03	94,599	82
SARMA, RAGHUPATHY BIOCHEMISTRY	STRUCTURE OF A SPECIFIC BACTERIAL PROTEIN BBCB		07-01-82 06-30-83	1	22550	1	R01 GM 30830-01	41,395	82
SHORTLE, DAVID R MICROBIOLOGY	SITE/SPECIFIC MUTAGENESIS OF CLONED GENES MG		05-01-82 04-30-83	2	21250	1	R01 GM 30649-01	78,527	82
SIMPSON, MELVIN V BIOCHEMISTRY	MITOCHONDRIA: NUCLEIC ACID SYNTHESIS AND ROLE OF DNA BIO		07-01-82 06-30-83	2	21280	2	R01 GM 22333-16	89,430	82
SOKAL, ROBERT R ECOLOGY AND EVOLUTION	SPATIAL ANALYSIS OF HUMAN VARIATION GEN		07-01-82 06-30-83	0	21400	5	R01 GM 28262-03	66.758	82
STERNGLANZ, ROLF BIOCHEMISTRY	ISOLATION OF AN E. COLI DNA TOPOISOMERASE I MUTANT MG		07-01-82 06-30-83	0	21200	5	R01 GM 28220-03	61,222	82
WALCOTT, BENJAMIN ANATOMICAL SCIENCES	NEURAL BASIS OF MAGNETIC FIELD DETECTION BPO		07-01-82 06-30-83	0	13700	5	R01 GM 28804-03	55,240	82
WISHNIA, ARNOLD CHEMISTRY	PRESSURE-JUMP STUDIES OF RIBOSOMES BBCA		01-01-82 12-31-82	0	21320	5	R01 GM 27176-03	63,177	82
WU, CHENG-WEN PHARMACOLOGICAL SCIENCES	MECHANISM AND REGULATION OF GENE TRANSCRIPTION BBCA		01-01-82 12-31-82	2	21750	5	R01 GM 28069-03	161,482	82
WU, FELICIA Y PHARMACOLOGICAL SCIENCES	ROLE OF METAL IN GENE EXPRESSION MBC		09-01-82 08-31-83	0	21750	5	R01 GM 28057-03	77,542	82
ZIEVE, GARY W ANATOMICAL SCIENCES	MITOSIS SPECIFIC CHANGES IN THE MAMMALIAN CYTOSKELETON CBY		09-01-82 08-31-83	2	22250	1	R01 GM 31005-01	89,563	82
** 34 TOTAL								3,217,758	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK									
SYRACUSE	COLLEGE OF ENVIRONMENTAL SCI & FORESTRY								
SCHUERCH, CONRAD CHEMISTRY	STEREOSPECIFIC SYNTHESIS OF POLYSACCHARIDES MCHA		07-01-82 06-30-83	0	11940	5	R01 GM 06168-23	69,649	82
** 1 TOTAL								69,649	
SYRACUSE	SYRACUSE UNIVERSITY AT SYRACUSE								
LEVY, GEORGE C CHEMISTRY	13C AND OTHER NUCLEI NMR OF DNA AND DNA INTERACTIONS BBCA		07-01-82 06-30-83	0	21100	5	R01 GM 29778-02	58,280	82
LIPSON, EDWARD D PHYSICS	SYSTEM ANALYSIS OF PHYCOMYCES PHOTORESPONSES BBCA		07-01-82 06-30-83	2	22300	5	R01 GM 29707-02	83,165	82
NAFIE, LAURENCE A CHEMISTRY	VIBRATIONAL OPTICAL ACTIVITY IN PEPTIDE MOLECULES BBCB		08-01-82 07-31-83	1	12840	5	R01 GM 23567-05	75,524	82
VOURNAKIS, JOHN N BIOLOGY	SECONDARY STRUCTURE AND PROCESSING OF PROKARYOTIC RNA MG		07-01-82 06-30-83	2	21320	1	R01 GM 31114-01	70,191	82
WARE, BENNIE R CHEMISTRY	AUTOMATED ELECTROPHORETIC ANALYSIS OF LIVING CELLS BBCA		09-01-82 08-31-83	1	12990	5	R01 GM 27633-04	95,005	82
WARNER, FRED D BIOLOGY	CILIARY MOTION: DYNEIN BEHAVIOR AND MICROTUBULE SLIDING CBY		06-01-82 05-31-83	2	22250	5	R01 GM 20690-09	100,177	82
** 6 TOTAL								482,342	
SYRACUSE	UPSTATE MEDICAL CENTER								
CROSS, RICHARD L BIOCHEMISTRY	MECHANISM OF ATP SYNTHESIS BY THE RESPIRATORY CHAIN PB		07-01-81 06-30-83	1	22450	5	R01 GM 23152-05	73,284	81

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK										
SYRACUSE	UPSTATE MEDICAL CENTER									
FREEDMAN, JEFFREY C	ELECTROPHYSIOLOGY OF HUMAN RED BLOOD CELLS									
PHYSIOLOGY	PHY		08-01-82	07-31-83	0	22300	5	R01 GM 28839-03	39,665	82
LINSCHEER, WILLEM G	PROTECTION OF PROPYLTHIOURACIL AGAINST TOXIC HEPATITIS									
MEDICINE	PHRA		01-01-82	12-31-82	1	11780	5	R01 GM 27801-02	103,201	82
** 3 TOTAL									216,150	
TROY	RENSSELAER POLYTECHNIC INSTITUTE									
COWARD, JAMES K	A MECHANISTIC STUDY OF BIOLOGICAL TRANSALKYLATION									
CHEMISTRY	PB		03-01-82	02-28-83	2	11920	9	R01 GM 30286-04	105,809	82
HANNA, MICHAEL H	ESTABLISHMENT OF MULTICELLULARITY IN P. VIOLACEUM									
BIOLOGY	CBY		04-01-82	03-31-83	0	22200	5	R01 GM 27892-03	46,754	82
SCHULTZ, ARTHUR G	SYNTHESIS OF ASPIDOSPERMA AND DENDROBINE ALKALOIDS									
CHEMISTRY	MCHA		09-01-82	08-31-83	1	11910	5	R01 GM 26568-05	108,243	82
WARDEN, JOSEPH T	ESR STUDIES OF ELECTRON TRANSPORT IN PHOTOSYSTEM 2									
CHEMISTRY	BBCA		09-30-82	08-31-83	2	22450	2	R01 GM 26133-04	107,684	82
WILSON, DWIGHT E, JR	RNASE DETECTION SYSTEMS									
BIOLOGY	BIO		01-01-82	12-31-82	0	22400	1	R01 GM 29702-01	9,600	82
** 5 TOTAL									378,090	
UPTON	ASSOCIATED UNIV-BROOKHAVEN NATL LAB									
BIELSKI, BENON H	BIOLOGICAL SUPEROXIDE RADICAL MECHANISMS									
CHEMISTRY DEPARTMENT	RAD		01-01-82	12-31-82	0	11920	5	R01 GM 23656-06	90,928	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NEW YORK										
UPTON	ASSOCIATED UNIV-BROOKHAVEN NATL LAB									
BURR, BENJAMIN BIOLOGY	TRANSPOSABLE GENETIC ELEMENTS OF MAIZE	GEN		08-01-82 07-31-83	1	21780	1	R01 GM 31093-01	126,218	82
HOUGH, PAUL V BIOLOGY	IN VITRO TRANSCRIPTION BY RNA POLYMERASE II	CTY		05-01-82 04-30-83	2	21310	1	R01 GM 30607-01	93,112	82
KOSSIAKOFF, ANTHONY A BIOLOGY	NEUTRON STUDIES OF PROTEIN DYNAMICS AND SOLVATION	BBCB		07-01-82 06-30-83	1	22550	5	R01 GM 29616-02	109,344	82
LACKS, SANFORD A BIOLOGY	DNA METHYLATION AND THE REGULATION OF GENE FUNCTION	MG		07-01-82 06-30-83	3	21750	5	R01 GM 29721-02	98,056	82
SELTZER, STANLEY CHEMISTRY	MECHANISM STUDIES OF ENZYMIC CIS-TRANS ISOMERIZATION	BIO		04-01-82 09-30-83	0	22400	5	R01 GM 27636-03	58,904	82
STUDIER, F WILLIAM BIOLOGY	REPLICATION OF T7 DNA	VR		02-01-82 01-31-83	0	21200	5	R01 GM 21872-08	80,806	82
** 7 TOTAL									657,368	
VALHALLA	NEW YORK MEDICAL COLLEGE									
ELSEVIERS, DIRK MICROBIOLOGY	ACCURACY IN GENE EXPRESSION	MG		01-01-82 12-31-82	1	21320	5	R01 GM 24576-05	77,943	82
SCHWARTZ, IRA S BIOCHEMISTRY	RIBOSOME BINDING SITES FOR PROTEIN SYNTHESIS FACTORS	PC		08-01-82 07-31-83	2	21320	2	R01 GM 29265-02A1	110,869	82
WU, JOSEPH M BIOCHEMISTRY	TRANSLATIONAL CONTROL MECHANISMS	BIO		01-01-82 12-31-82	1	21320	5	R01 GM 27210-02	73,561	82
** 3 TOTAL									262,373	
*** 4 *CENTERS									379,245	
*** 383 NONCENTER									44,580,979	
*** 387 TOTAL									44,960,224	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA									
CHAPEL HILL	UNIVERSITY OF NORTH CAROLINA CHAPEL HILL								
AZIZ, SANCAR	STRUCTURE AND REGULATION OF E. COLI DNA PHOTOLYASE								
BIOCHEMISTRY AND NUTRITION	MG		08-01-82 07-31-83	2	21250	1	R01 GM 31082-01	124,740	82
BOTT, KENNETH F	CHARACTERIZATION OF THE B SUBTILIS CHROMOSOME ORIGIN								
BACTERIOLOGY AND IMMUNOLOGY	MBC		08-01-81 07-31-83	0	21200	5	R01 GM 26399-03	50,740	81
BROOKHART, MAURICE S	DEVELOPMENT AND USE OF MANGANESE IN ORGANIC SYNTHESIS								
CHEMISTRY	BMT		07-01-82 06-30-83	1	11940	5	R01 GM 28938-02	86,888	82
BURRIDGE, KEITH W	NONMUSCLE ALPHA-ACTININ AND ACTIN-MEMBRANE INTERACTION								
ANATOMY	CBY		04-01-82 03-31-83	0	22250	5	R01 GM 29860-02	119,072	82
CARTER, CHARLES W, JR	TRP-TRNA LIGASE AND SUBSTRATE COMPLEXES: X-RAY STUDY								
BIOCHEMISTRY AND NUTRITION	BBCB		04-01-81 03-31-83	0	22550	5	R01 GM 26203-03	54,696	81
CHAE, CHI-BOM	GLOBIN GENE BINDING NONHISTONE PROTEINS								
BIOCHEMISTRY AND NUTRITION	MBY		04-01-82 03-31-83	0	21250	5	R01 GM 27839-03	65,386	82
CHAE, CHI-BOM	ROLE OF CHROMOSOMAL PROTEASE IN NUCLEAR FUNCTIONS								
BIOCHEMISTRY AND NUTRITION	PBC		04-01-82 03-31-83	0	21600	5	R01 GM 21846-07	49,990	82
EDGELL, MARSHALL H	EUKARYOTIC GENE ORGANIZATION								
BACTERIOLOGY AND IMMUNOLOGY	MGN		12-01-81 11-30-82	0	21600	5	R01 GM 21313-08	172,676	82
EDGELL, MARSHALL H	SEQUENCE ELEMENTS IN THE MOUSE								
BACTERIOLOGY AND IMMUNOLOGY	MGN		02-01-82 01-31-83	2	21600	1	R01 GM 30180-01	86,400	82
ERREDE, BEVERLY J	REGULATION OF GENE EXPRESSION BY TRANSPOSABLE ELEMENTS								
CHEMISTRY	GEN		07-01-82 06-30-83	2	21780	1	R01 GM 30619-01	95,778	82
FOWLER, ELIZABETH F	SEGREGATION OF CHROMOSOMAL PROTEINS								
CANCER RESEARCH CENTER	MBY		12-01-80 11-30-82	0	21600	5	R01 GM 25864-03	84,273	81
HACKENBROCK, CHARLES R	STRUCTURAL AND FUNCTIONAL ENGINEERING OF A BIOMEMBRANE								
ANATOMY	PB		12-01-81 11-30-82	2	22300	5	R01 GM 28704-02	82,364	82
HARDEN, T KENDALL	SYNTHESIS OF BETA-ADRENERGIC RECEPTORS								
PHARMACOLOGY	PHRA		04-01-82 03-31-83	2	11770	5	R01 GM 27820-03	104,271	82
HARDEN, T KENDALL	MUSCARINIC RECEPTOR REGULATION OF ADENYLATE CYCLASE								
PHARMACOLOGY	PHRA		04-01-82 03-31-83	1	11770	5	R01 GM 29536-05	57,840	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA									
CHAPEL HILL	UNIVERSITY OF NORTH CAROLINA CHAPEL HILL								
HARRIS, ALBERT K ZOOLOGY	CONTROL AND GUIDANCE OF TISSUE CELL LOCOMOTION CP		09-01-82 08-31-83	2	22250	2	R01 GM 24251-06	91,938	82
JACOBSON, KENNETH A ANATOMY	LATERAL MOBILITY OF MOLECULES AT CELL SURFACE BBCA		09-01-82 08-31-83	0	22300	5	R01 GM 29234-04	114,526	82
LEMASTERS, JOHN J ANATOMY	RATE CONTROL AND THERMODYNAMICS OF OX PHOS PB		04-01-82 03-31-83	1	22450	5	R01 GM 28999-02	52,886	82
LUCCHESI, JOHN C ZOOLOGY	GENETIC REGULATION IN DROSOPHILA: DOSAGE COMPENSATION GEN		09-01-82 08-31-83	1	21700	5	R01 GM 15691-15	144,039	82
MARONI, GUSTAVO P ZOOLOGY	REGULATION OF ALCOHOL DEHYDROGENASE IN DROSOPHILA GEN		04-01-81 03-31-83	0	21700	5	R01 GM 26207-03	43,999	81
PARR, ROBERT G CHEMISTRY	THE QUANTUM THEORY OF MOLECULAR ISOELECTRONIC CHANGES BBCA		03-01-82 02-28-83	2	22600	5	R01 GM 22028-08	63,406	82
PERKINS, JOHN P PHARMACOLOGY	REGULATION OF B-ADRENERGIC RECEPTOR FUNCTION PHRA		07-01-82 06-30-83	3	11770	5	R01 GM 29522-02	93,441	82
PUKKILA, PATRICIA J ZOOLOGY	MEIOSIS AND GENETIC RECOMBINATION IN COPRINUS CINEREUS GEN		04-01-82 03-31-83	0	21600	5	R01 GM 27863-03	64,706	82
SALMON, EDWARD D ZOOLOGY	MECHANISMS OF MITOTIC SPINDLE ASSEMBLY AND FUNCTION CBY		12-01-81 11-30-82	4	22250	2	R01 GM 24364-04	120,066	82
SCARBOROUGH, GENE A PHARMACOLOGY	ENERGY TRANSDUCTION IN NEUROSPORA PLASMA MEMBRANES SSS		06-01-82 05-31-83	4	22450	2	R01 GM 24784-06	132,800	82
SORRELL, THOMAS N CHEMISTRY	MODELS FOR MOLYBDENUM ENZYMES BMT		02-01-82 01-31-83	1	11920	5	R01 GM 28375-02	46,177	82
SPREMULLI, LINDA L CHEMISTRY	MECHANISM OF PROTEIN BIOSYNTHESIS IN CHLOROPLASTS PC		04-01-82 03-31-83	3	21320	5	R01 GM 24963-05	76,150	82
TOPAL, MICHAEL D CANCER RESEARCH CENTER	MOLECULAR BASIS OF ENVIRONMENTALLY INDUCED MUTATIONS CPA		04-01-82 03-31-83	4	21250	2	R01 GM 24798-04	87,613	82
WOLFENDEN, RICHARD V BIOCHEMISTRY AND NUTRITION	CHEMICAL MECHANISMS OF BIOSYNTHESIS BIO		07-01-82 06-30-83	2	22400	5	R01 GM 18325-12	112,911	82
** 28 TOTAL								2,479,772	

NORTH CAROLINA

DURHAM

DUKE UNIVERSITY

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
AMOS, D BERNARD / MICROBIOLOGY AND IMMUNOLOGY	THE IMMUNOGENETICS OF MAN, MICE & VIRUSES	IMB		12-01-81	11-30-82	2	21400	5	R01 GM 10356-19	439,870	82
ANDERSON, C WILLIAM / CHEMISTRY	A HOMOGENEOUS VOLTAMMETRIC IMMUNOASSAY	SSS		09-01-82	08-31-83	0	12820	5	R01 GM 28306-03	56,337	82
ARNETT, EDWARD M / CHEMISTRY	CHIRAL MONOLAYERS	BBCB		07-01-82	06-30-83	0	22300	5	R01 GM 28757-03	87,836	82
BAUMANN, GILBERT / PHYSIOLOGY	EXPERIMENTAL TESTING OF THE MODULAR CHANNEL CONCEPT	PHY		07-01-82	06-30-83	0	22300	5	R01 GM 27260-03	48,900	82
BEALL, HIE PING / ANATOMY	FAST TRANSPORT KINETICS & ULTRASTRUCTURE OF THE NA+ PUMP	PB		05-01-82	04-30-83	2	22300	1	R01 GM 27804-01A2	101,174	82
BELL, ROBERT M / BIOCHEMISTRY	REGULATION OF MEMBRANE PHOSPHOLIPID SYNTHESIS	MBC		05-01-82	04-30-83	4	22300	2	R01 GM 20015-09	136,586	82
BOYNTON, JOHN E / BOTANY	HEREDITARY CONTROL OF ORGANELLE STRUCTURE AND FUNCTION	MBC		05-01-82	04-30-83	2	21280	5	R01 GM 19427-11	221,207	82
BURNS, RICHARD O / MICROBIOLOGY AND IMMUNOLOGY	MOLECULAR MECHANISMS OF BIOLOGICAL CONTROL	MBC		05-01-82	04-30-83	2	22400	5	R01 GM 12551-18	92,115	82
CHRISTIAN, CHARLES, II / ANESTHESIOLOGY	ANESTHESIA AND THE CARDIOVASCULAR SYSTEM	SAT		08-01-82	07-31-83	2	13200	1	R01 GM 30820-01	127,155	82
COSTELLO, MARTIN J, III / ANATOMY	COMBINED X-RAY/EM ANALYSIS OF INTRAMEMBRANE PARTICLES	BBCB		04-01-82	06-30-83	0	22300	5	R01 GM 27914-03	62,824	82
ERICKSON, HAROLD P / ANATOMY	IMMUNO-ELECTRON MICROSCOPY OF CYTOSKELETAL FILAMENTS	MBY		05-01-82	04-30-83	1	22250	5	R01 GM 28553-02	69,806	82
FRIDOVICH, IRWIN / BIOCHEMISTRY	BIOLOGY OF SUPEROXIDE RADICAL & SUPEROXIDE DISMUTASES	BIO		09-01-82	08-31-83	1	22400	5	R01 GM 10287-20	177,996	82
GREENE, RONALD C / BIOCHEMISTRY	BIOCHEMISTRY OF SULFONIUM COMPOUNDS	PC		09-01-80	08-31-83	0	21750	5	R01 GM 10317-18	50,187	80
GREENLEAF, ARNO L / BIOCHEMISTRY	BIOCHEMICAL GENETICS OF DROSOPHILA RNA POLYMERASE II	GEN		07-01-82	06-30-83	2	21310	5	R01 GM 28078-03	127,731	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA								
DURHAM	DUKE UNIVERSITY							
GROSS, SAMSON R BIOCHEMISTRY	REGULATORY MECHANISMS OF ENZYME SYNTHESIS IN NEUROSPORA MBY	08-01-82 07-31-83	2	21750	5 R01 GM	28331-03	129,081	82
GUILD, WALTER R BIOCHEMISTRY	PNEUMOCOCCAL PHAGE AS GENETIC TOOLS MBC	07-01-82 06-30-83	1	21780	5 R01 GM	21887-07	67,191	82
GUTKNECHT, JOHN W PHYSIOLOGY	ACID/BASE TRANSPORT THROUGH LIPID BILAYER MEMBRANES PHY	04-01-82 03-31-83	1	22300	5 R01 GM	28844-02	47,250	82
HILL, ROBERT L BIOCHEMISTRY	STRUCTURE AND FUNCTION OF PROTEINS PC	09-01-82 08-31-83	0	22500	5 R01 GM	25766-22	241,247	82
HSIEH, TAO-SHIH BIOCHEMISTRY	DNA TOPOISOMERASE: FUNCTION AND MECHANISM GEN	04-01-82 03-31-83	1	21200	5 R01 GM	29006-02	87,630	82
KAMIN, HENRY BIOCHEMISTRY	BIOLOGICAL OXIDATIONS IN MITOCHONDRIA AND MICROSOMES BIO	06-01-82 05-31-83	1	22400	5 R01 GM	21226-21	134,461	82
KARIMAN, KHALIL MEDICINE	MONITORING OF CYTOCHROME REDOX STATE IN SHOCK SAT	05-01-82 04-30-83	2	13420	1 R01 GM	29531-01A1	119,618	82
KUBAI, DONNA F ZOOLOGY	EVOLUTION OF CHROMOSOME MOVEMENT CBY	08-01-82 07-31-83	4	22250	1 R01 GM	31198-01	55,970	82
MANDEL, LAZARO J PHYSIOLOGY	MECHANISMS OF ACTIVE AND PASSIVE SOLUTE TRANSPORT PHY	09-01-82 08-31-83	0	13410	5 R01 GM	29256-11	80,686	82
MC INTOSH, THOMAS J ANATOMY	LIPID BILAYER STRUCTURE: EFFECT OF SMALL MOLECULES BBCB	07-01-82 06-30-83	0	22550	5 R01 GM	27278-03	62,895	82
MODRICH, PAUL L BIOCHEMISTRY	ENZYMATIC BASIS OF TYPE II RESTRICTION AND MODIFICATION BIO	08-01-82 07-31-83	3	21200	5 R01 GM	23719-07	219,480	82
MOSES, MONTROSE J ANATOMY	CHROMOSOME ANALYSIS IN LEMURIFORM PRIMATES MGN	07-01-82 06-30-83	0	21800	5 R01 GM	23047-07	82,377	82
NICKLAS, R BRUCE ZOOLOGY	ANALYSIS AND CONTROL OF CHROMOSOME MOVEMENT CBY	01-01-82 12-31-82	3	22250	5 R01 GM	13745-17	81,179	82
NOZAKI, YASUHIKO BIOCHEMISTRY	DETERMINATION OF THE CONCENTRATION OF BIOPOLYMERS BBCA	07-01-82 06-30-83	1	22500	1 R01 GM	30900-01	71,797	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA									
DURHAM	DUKE UNIVERSITY								
PARMENTIER, JAMES L ANESTHESIOLOGY	MODE OF ACTION OF VOLATILE ANESTHETICS SAT		04-01-82 03-31-83	1	13200	5	R01 GM 24936-05	110,520	82
RAJAGOPALAN, K V BIOCHEMISTRY	STRUCTURE AND FUNCTION OF ENZYMES--ROLE OF METALS PC		06-01-82 05-31-83	4	22400	2	R01 GM 00091-37	231,246	82
RICHARDSON, DAVID C BIOCHEMISTRY	CRYSTALLOGRAPHIC ANALYSIS OF PROTEIN STRUCTURES BBCB		06-01-82 05-31-83	1	22550	5	R01 GM 15000-13	168,540	82
ROBERTSON, J DAVID ANATOMY	STRUCTURE OF PARA-CRYSTALLINE BIOLOGICAL MEMBRANES SSS		07-01-82 06-30-83	0	22300	5	R01 GM 28224-03	152,733	82
ROSEN, GERALD M PHARMACOLOGY	POST TRAUMATIC FATTY ACID METABOLISM AND CELLULAR INJURY SGYA		12-01-81 11-30-82	1	13420	5	R01 GM 25753-04	125,426	82
ROSEN, GERALD M PHARMACOLOGY	HEPATIC METABOLIC DYSFUNCTION ASSOCIATED WITH TRAUMA SAT		04-01-82 03-31-83	1	13420	5	R01 GM 25188-05	104,736	82
SHAW, BARBARA R CHEMISTRY	CHANGES IN NUCLEOSOME STRUCTURE DURING EMBRYOGENESIS PBC		01-01-82 12-31-82	1	21600	5	R01 GM 23681-06	59,406	82
STERNBACH, DANIEL D CHEMISTRY	CHIRAL SYNTHESIS: METHYLENOMYCIN & PEDERIN MCHA		02-01-82 01-31-83	2	11910	1	R01 GM 30343-01	86,098	82
TAYLOR, KENNETH A ANATOMY	ELECTRON MICROSCOPE STUDIES ON MUSCLE BBCB		05-01-82 04-30-83	2	22250	1	R01 GM 30598-01	86,568	82
URBANIAK, JAMES R SURGERY	TISSUE INJURY, REVASCULARIZATION AND TRANSPLANTATION AFY		03-01-82 02-28-83	1	13410	5	R01 GM 25666-05	152,211	82
VON RAMM, OLAF T BIOMEDICAL ENGINEERING	HIGH-SPEED ULTRASOUND IMAGING SSS		07-01-82 06-30-83	1	12910	5	R01 GM 29680-02	135,071	82
WEBSTER, ROBERT E BIOCHEMISTRY	BIOSYNTHESIS OF A MEMBRANE PROTEIN MBC		01-01-82 12-31-82	0	22300	5	R01 GM 18305-11	97,816	82
** 40 TOTAL								4,790,957	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA									
RALEIGH	NORTH CAROLINA STATE UNIVERSITY RALEIGH								
BEWLEY, GLENN C	REGULATION OF GENE EXPRESSION DURING DEVELOPMENT								
GENETICS	GEN		01-01-82 12-31-82	0	21700	5	R01 GM 23617-06	66,406	82
COCKERHAM, C CLARK	QUANTITATIVE GENETICS RESEARCH PROGRAM								
STATISTICS	SSS		12-01-81 11-30-82	3	21800	5	P01 GM 11546-19	413,879	82
HORTON, H ROBERT	SULFHYDRYL OXIDASE, GLUTAMYLTRANSFERASE, AND DISULFIDES								
NONE	PC		09-15-82 08-31-83	2	22400	1	R01 GM 28978-01A1	62,227	82
LAURIE-AHLBERG, CATHY C	GENETIC VARIATION OF FLIGHT METABOLISM IN DROSOPHILA								
GENETICS	GEN		02-01-82 01-31-83	1	21800	5	R01 GM 28455-02	69,253	82
SCANDALIOS, JOHN G	CONTROL OF GENE EXPRESSION IN EUKARYOTE DEVELOPMENT								
GENETICS	GEN		08-01-82 07-31-83	1	21320	5	R01 GM 22733-07	65,999	82
** 5 TOTAL								677,764	
RESEARCH TRIANGL	RESEARCH TRIANGLE INSTITUTE								
COOK, CLARENCE E	PHARMACOLOGY OF STEROSELECTIVE RADIOIMMUNOASSAY								
CHEMISTRY & LIFE SCIS GROUP	PHRA		07-01-81 12-31-82	0	11770	5	R01 GM 23197-06	113,648	81
** 1 TOTAL								113,648	
WINSTON-SALEM	WAKE FOREST UNIVERSITY								
BLIZARD, DAVID A	GENETICS, REACTIVITY TO STRESS AND BIOGENIC AMINES								
PHYSIOLOGY AND PHARMACOLOGY	BPO		07-01-81 06-30-83	0	13700	5	R01 GM 28874-02	100,356	81
RILEY, WARD A, JR	OPTICAL DIFFRACTION ANALYSIS OF PULSED ULTRASOUND								
NEUROLOGY	RNM		07-01-82 06-30-83	0	12910	5	R01 GM 27755-03	74,586	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH CAROLINA									
WINSTON-SALEM	WAKE FOREST UNIVERSITY								
THOMAS, MICHAEL J	OXYGEN AND OXY-RADICALS IN PHAGOCYTIC KILLING								
BIOCHEMISTRY	BBCA		04-01-82 03-31-83	2	11920	1	R01 GM 29611-01	54,424	82
** 3 TOTAL								229,366	
*** 0 *CENTERS								0	
*** 77 NONCENTER								8,291,507	
*** 77 TOTAL								8,291,507	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NORTH DAKOTA									
GRAND FORKS	UNIVERSITY OF NORTH DAKOTA								
HOGGARD, PATRICK E CHEMISTRY	LUMINESCENCE OF AMINO ACID AND PEPTIDE COMPLEXES BMT		07-01-81 09-30-82	0	11920	7	R01 GM 30352-01	41,504	81
LAMBETH, DAVID O BIOCHEMISTRY	SYNTHESIS AND PROPERTIES OF S-ALKYLISOTHIAZOLIDINES MCHA		01-01-81 12-31-82	0	11930	5	R01 GM 25252-04	24,610	81
** 2 TOTAL								66,114	
*** 0 *CENTERS								0	
*** 2 NONCENTER								66,114	
*** 2 TOTAL								66,114	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OHIO									
ATHENS	OHIO UNIVERSITY ATHENS								
DOWNEY, RONALD J	BIOSYNTHESIS OF NITRATE REDUCTASE IN FUNGI								
ZOOLOGY AND MICROBIOLOGY	MBC		09-01-82 08-31-83	0	21750	5	R01 GM 29245-03	39,541	82
** 1 TOTAL								39,541	
CINCINNATI	UNIVERSITY OF CINCINNATI								
BOBST, ALBERT M	SPIN ASSAY FOR NUCLEIC ACID BINDING PROTEINS								
CHEMISTRY	BBCA		03-01-82 02-28-83	2	21100	5	R01 GM 27002-06	66,777	82
BRIDENBAUGH, PHILLIP O	EFFECT OF TONICITY ON SPINAL ANESTHESIA IN THE MONKEY								
ANESTHESIA	SAT		07-01-82 06-30-83	0	13200	5	R01 GM 28267-03	50,637	82
BROWN, RONALD D	GENERATION OF ANTIBODY DIVERSITY DURING DEVELOPMENT								
BIOLOGICAL CHEMISTRY	ALY		04-01-82 03-31-83	2	21750	2	R01 GM 22766-07	113,659	82
FORD, DOUGLAS J	SPECIES DIFFERENCES IN HALOTHANE HEPATOTOXICITY								
ANESTHESIA	PHRA		07-01-82 06-30-83	0	13200	5	R01 GM 28155-03	80,667	82
KANESHIRO, EDNA S	MEMBRANE ALTERATIONS IN BEHAVIORAL MUTANTS								
BIOLOGICAL SCIENCES	CBY		04-01-81 11-30-82	0	22300	5	R01 GM 20910-06	72,407	81
KANESHIRO, EDNA S	MEMBRANE ALTERATIONS IN BEHAVIORAL MUTANTS								
BIOLOGICAL SCIENCES	CBY		04-01-81 11-30-82	0	22300	3	R01 GM 20910-06S1	28,600	81
KRUEGER, ROBERT C	STRUCTURE AND TEMPLATE ACTIVITY OF CHROMATIN								
BIOLOGICAL CHEMISTRY	PBC		07-01-82 06-30-83	1	21600	5	R01 GM 23030-07	47,312	82
LINGREL, JERRY B	REGULATION OF GENE EXPRESSION IN MAMMALIAN CELLS								
BIOLOGICAL CHEMISTRY	BIO		07-01-82 06-30-83	3	21750	5	R01 GM 10999-18	116,422	82
LUSE, DONAL S	CONTROL OF TRANSCRIPTION IN EUKARYOTIC CELLS								
BIOLOGICAL CHEMISTRY	MBY		07-01-82 06-30-83	1	21310	5	R01 GM 29487-02	100,206	82
MEYER, RALPH R	E. COLI MUTANT DNA BINDING PROTEINS AND DNA METABOLISM								
BIOLOGICAL SCIENCES	MG		09-15-82 08-31-83	2	21200	1	R01 GM 31196-01	84,176	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OHIO									
CINCINNATI	UNIVERSITY OF CINCINNATI								
MICHAELS, JOHN E / ANATOMY	EFFECTS OF DIAZOOXONORLEUCINE ON COLON SURFACE CELLS / CBY		01-01-81 12-31-82	0	22200	5	R01 GM 24604-03	35,524	81
SAELINGER, CATHARINE B / MICROBIOLOGY	PATHOGENESIS OF PSEUDOMONAS IN THERMAL INJURY / SAT		04-01-82 03-31-83	2	13410	5	R01 GM 24028-05	85,273	82
STAMBROOK, PETER J / ANATOMY	STUDY OF MAMMALIAN GENES AND THEIR REPLICATION / GEN		01-01-81 12-31-82	0	21200	7	R01 GM 29463-01	93,034	81
** 12 TOTAL								974,694	
CLEVELAND	CASE WESTERN RESERVE UNIVERSITY								
HARPST, JERRY A / BIOCHEMISTRY	NUCLEOPROTEIN COMPLEXES FROM ADENOVIRUS / BBCA		04-01-82 03-31-83	1	21100	5	R01 GM 29828-02	78,872	82
HOCHBERG, KENNETH J / MATHEMATICS AND STATISTICS	POPULATION PROCESSES IN GENETICS AND BIOLOGY / SSS		09-01-81 08-31-83	0	21800	5	R01 GM 28336-02	19,245	81
JACOBS-LORENA, MARCELO / ANATOMY	BIOCHEMICAL STUDIES OF DROSOPHILA OOGENESIS / MBY		04-01-82 03-31-83	1	21700	5	R01 GM 25327-05	116,214	82
KATONA, PETER G / BIOMEDICAL ENGINEERING	OPTIMAL AUTOMATED CONTROL OF PHYSIOLOGICAL SYSTEMS / SGYB		08-01-81 07-31-83	0	12200	5	R01 GM 25538-03	64,223	81
LIU, CHUNG-CHIUN / ELECTRONICS DESIGN CENTER	PALLADIUM-PALLADIUM OXIDE MINIATURE PH ELECTRODE / SB		04-01-82 03-31-83	0	12400	5	R01 GM 28947-02	62,161	82
MAGUIRE, MICHAEL / BIOLOGY	APPLICATION FOR AN ELECTRON MICROSCOPE / SSS		12-01-81 11-30-82	1	12900	5	P41 GM 27543-02	16,414	82
MAGUIRE, MICHAEL E / PHARMACOLOGY	ROLE OF MAGNESIUM IN CELL RESPONSE TO HORMONE / PHRA		01-01-82 03-31-83	0	11870	5	R01 GM 26340-03	99,660	82
MERRICK, WILLIAM C / BIOCHEMISTRY	MECHANISM OF PROTEIN SYNTHESIS INITIATION / PC		07-01-81 03-31-83	0	21320	5	R01 GM 26796-03	85,991	81

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OHIO									
CLEVELAND	CASE WESTERN RESERVE UNIVERSITY								
NILSEN, TIMOTHY W	2',5'-OLIGO(A) AND NUCLEAR RNA METABOLISM								
MICROBIOLOGY	MBY		08-01-82 07-31-83	2	21320	1	R01 GM 31528-01	62,186	82
PEARSON, ANTHONY J	STEROID, C-NOR-D-HOMOSTEROID, AND APHIDICOLIN SYNTHESES								
CHEMISTRY	MCHA		08-01-82 07-31-83	2	11910	1	R01 GM 30373-01	110,196	82
ROSCOE, DENNIS D	MYOELECTRIC CONTROLLER FOR ORTHOTIC/PROSTHETIC SYSTEMS								
ORTHOPAEDICS	ORTH		09-01-82 08-31-83	2	12350	1	R01 GM 30838-01	97,569	82
RUSTAD, RONALD C	CELL CYCLE DEPENDENT CHANGES IN RADIATION SENSITIVITY								
RADIOLOGY	RAD		04-01-81 03-31-83	0	22200	5	R01 GM 26484-03	73,294	81
SALOMON, ROBERT G	PREPROSTAGLANDIN ENDOPEROXIDES								
CHEMISTRY	BNP		04-01-82 03-31-83	2	11910	2	R01 GM 21249-06A1	179,267	82
SALOMON, ROBERT G	TOTAL SYNTHESIS OF K76: COMPLEMENT CASCADE INHIBITORS								
CHEMISTRY	MCHA		04-01-82 03-31-83	1	11910	5	R01 GM 29073-02	48,580	82
STUEHR, JOHN E	KINETIC INVESTIGATION OF BIOCHEMICAL REACTIONS								
CHEMISTRY	BIO		04-01-82 03-31-83	3	22400	2	R01 GM 13116-17	94,684	82
SUKENIK, CHAIM N	AQUEOUS MICELLE MEDIATED CHEMICAL SELECTIVITY								
CHEMISTRY	MCHA		06-01-82 05-31-83	0	11920	5	R01 GM 27355-03	74,594	82
WOOD, HARLAND G	SUBUNIT-SUBUNIT INTERACTIONS OF TRANSCARBOXYLASE								
BIOCHEMISTRY	BIO		09-01-82 08-31-83	2	22400	5	R01 GM 22579-08	187,541	82
WOOD, HARLAND G	UTILIZATION OF CO2 AND THE TOTAL SYNTHESIS OF ACETATE								
BIOCHEMISTRY	BIO		04-01-82 03-31-83	0	22400	5	R01 GM 24913-05	97,561	82
WOOD, HARLAND G	ROLE OF INORGANIC POLYPHOSPHATE IN METABOLISM								
BIOCHEMISTRY	MBC		07-01-82 06-30-83	3	22400	5	R01 GM 29569-02	59,676	82
** 19 TOTAL								1,627,928	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OHIO									
CLEVELAND			CLEVELAND RESEARCH INSTITUTE						
GREENWALD, A SETH / NONE	AFY		BONE-IMPLANT INTERFACE ANALYSIS / 01-01-82 12-31-82	0	12300	5	R01 GM 29785-02	18,500	82
** 1 TOTAL								18,500	
COLUMBUS			OHIO STATE UNIVERSITY						
BIRKY, C WILLIAM, JR / GENETICS	GEN		MECHANISMS OF ORGANELLE TRANSMISSION GENETICS / 08-01-82 07-31-83	1	21280	5	R01 GM 19607-10	122,170	82
BUSCH, DARYLE H / CHEMISTRY	BMT		BIOMIMETIC METAL COMPLEXES OF MACROCYLIC LIGANDS / 07-01-82 06-30-83	0	11920	5	R01 GM 10040-20	110,000	82
GROSS, ELIZABETH L / BIOCHEMISTRY	BBCA		CHEMICAL MODIFICATION OF PLASTOCYANIN / 05-01-82 04-30-83	2	22500	1	R01 GM 30560-01	73,452	82
HART, DAVID J / CHEMISTRY	MCHA		SYNTHESIS OF BIOLOGICALLY ACTIVE ALKALOIDS / 04-01-82 03-31-83	0	11910	5	R01 GM 27647-03	61,895	82
HORTON, DEREK / CHEMISTRY	MCHA		SYNTHESIS OF BIOLOGICALLY IMPORTANT CARBOHYDRATES / 04-01-82 09-30-83	0	11910	5	R01 GM 11976-17	109,522	82
HORTON, DEREK / CHEMISTRY	SSS		NMR SPECTROMETER FOR CORE USER GROUP / 09-01-81 12-31-82	0	12900	5	P41 GM 27431-03	18,570	81
IVES, DAVID H / BIOCHEMISTRY	BIO		MECHANISMS OF NUCLEOSIDE KINASE REGULATION / 07-01-81 06-30-83	0	22400	5	R01 GM 26900-03	45,115	81
JOHNSON, LEE F / BIOCHEMISTRY	MBY		THYMIDYLATE SYNTHETASE GENE EXPRESSION / 09-01-82 08-31-83	1	21750	5	R01 GM 29356-02	49,016	82
KLAPPER, MICHAEL H / CHEMISTRY	PB		CHYMOTRYPSIN DEACYLATION--AN IN-DEPTH STUDY / 07-01-82 06-30-83	2	22400	1	R01 GM 29353-01A1	95,109	82
MARSHALL, ALAN G / CHEMISTRY	BBCA		SOLUTION STRUCTURE OF RIBOSOMAL 5S RNA AND 5,8S RNA / 01-01-82 12-31-82	1	21100	5	R01 GM 29274-02	80,471	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
OHIO								
COLUMBUS	OHIO STATE UNIVERSITY							
MARZLUF, GEORGE A	REGULATION OF GENE EXPRESSION IN NEUROSPORA							
BIOCHEMISTRY	GEN	01-01-82 12-31-82	4	21750	2 R01 GM	23367-06	86,724	82
PAQUETTE, LEO A	SYNTHETIC ELABORATION OF POLYQUINANE NATURAL PRODUCTS							
CHEMISTRY	MCHA	07-01-82 06-30-83	0	11910	5 R01 GM	28468-03	75,450	82
ROEHRIG, KARLA L	HORMONAL AND DIETARY CONTROL OF ATP CITRATE LYASE							
FOOD SCIENCE AND NUTRITION	NTN	09-01-82 08-31-83	0	22400	5 R01 GM	29255-03	33,659	82
TSAI, MING-DAW	STEREOCHEMISTRY OF ENZYME REACTIONS TO PHOSPHOROUS							
CHEMISTRY	PB	07-01-82 06-30-83	2	22400	2 R01 GM	30327-02	67,593	82
TSAI, MING-DAW	17 O AND 31P NMR OF BIOPHOSPHATES							
CHEMISTRY	BMT	08-01-82 07-31-83	2	22500	1 R01 GM	29041-01A1	67,282	82
WEBB, THOMAS E	POST-TRANSCRIPTIONAL CONTROL IN EUKARYOTIC CELLS							
PHYSIOLOGICAL CHEMISTRY	BIO	04-01-82 03-31-83	1	21320	5 R01 GM	29221-10	86,488	82
** 16 TOTAL							1,182,516	
DAYTON	WRIGHT STATE UNIVERSITY							
LEFFAK, IRA M	CHROMATIN STRUCTURE AND REPLICATION							
BIOLOGICAL CHEMISTRY	CTY	07-01-81 12-31-82	0	21600	5 R01 GM	26803-03	66,221	81
** 1 TOTAL							66,221	
KENT	KENT STATE UNIVERSITY AT KENT							
TSAI, CHUN-CHE	BINDING OF DRUGS TO NUCLEIC ACIDS							
CHEMISTRY	BBCA	01-01-82 12-31-82	1	11920	5 R01 GM	31257-02	56,520	82
** 1 TOTAL							56,520	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
OHIO										
ROOTSTOWN	NORTHEASTERN OHIO UNIVERSITIES COLL MED									
DEPEW, RICHARD E	BACTERIAL W PROTEINS: BIOCHEMISTRY AND GENETICS									
MICROBIOLOGY AND IMMUNOLOGY	MG		07-01-82 06-30-83	3	21200	5	R01 GM	25500-05	98,715	82
STEGGLES, ALAN W	THE REGULATION OF CYTOCHROME P-450-LM2 MRNA SYNTHESIS									
MOLECULAR PATHOLOGY & BIOLOGY	BIO		02-01-82 01-31-83	2	11760	1	R01 GM	27675-01A1	58,100	82
WESTERMAN, PHILIP W	DMR STUDIES OF PROTEIN-PHOSPHOLIPID BILAYER MEMBRANES									
MOLECULAR PATHOLOGY & BIOLOGY	BBCB		01-01-82 12-31-82	0	22300	5	R01 GM	27127-03	58,012	82
** 3 TOTAL									214,827	
TOLEDO	MEDICAL COLLEGE OF OHIO AT TOLEDO									
GARLID, KEITH D	ION TRANSPORT MECHANISMS IN MITOCHONDRIA									
PHARMACOLOGY AND THERAPEUTICS	PB		07-01-82 06-30-83	2	22450	1	R01 GM	31086-01	117,831	82
KOECHEL, DANIEL A	RENAL NECROSIS INDUCED BY CHEMICALS									
PHARMACOLOGY AND THERAPEUTICS	TOX		07-01-81 06-30-83	0	11790	5	R01 GM	26775-03	63,345	81
LONG, CALVIN L	METABOLIC RESPONSE TO TRAUMA									
SURGERY	SRC		07-01-82 06-30-83	2	13300	2	P01 GM	23065-07A1	376,955	82
MANNING, MAURICE	DESIGN AND SYNTHESIS OF NEUROHYPOPHYSIAL PEPTIDES									
BIOCHEMISTRY	MCHA		07-01-82 06-30-83	0	11470	5	R01 GM	25280-11	120,364	82
** 4 TOTAL									678,495	
TOLEDO	UNIVERSITY OF TOLEDO									
FUNK, MAX O	ANALYSIS OF THE PEROXIDES OF ARACHIDONATE METABOLISM									
CHEMISTRY	SSS		12-01-81 11-30-82	0	12820	5	R01 GM	28576-02	20,560	82
** 1 TOTAL									20,560	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OHIO									
WOOSTER	COLLEGE OF WOOSTER								
HINTON, CLAUDE W	CHROMOSOME BEHAVIOR IN DROSOPHILA								
BIOLOGY	GEN		01-01-82 12-31-82	2	21250	5	R01 GM 16536-14	22,387	82
** 1 TOTAL								22,387	
YOUNGSTOWN	YOUNGSTOWN STATE UNIVERSITY								
DEL BENE, JANET E	HYDROGEN BONDING, H+ & LI+ ASSOCIATION--MOLECULAR ORBIT								
CHEMISTRY	BBCA		08-01-82 07-31-83	0	22600	5	R01 GM 27955-03	32,045	82
** 1 TOTAL								32,045	
*** 0 *CENTERS								0	
*** 61 NONCENTER								4,934,234	
*** 61 TOTAL								4,934,234	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OKLAHOMA									
NORMAN	UNIVERSITY OF OKLAHOMA NORMAN								
DRYHURST, GLENN CHEMISTRY	ELECTROCHEMISTRY OF PURINES SSS		07-01-82 06-30-83	0	11920	5	R01 GM 21034-09	74,381	82
JOHNSON, ARTHUR E CHEMISTRY	THE INTERACTION OF AA-TRNA WITH EF-TU AND RIBOSOMES BBCA		04-01-82 03-31-83	2	21320	2	R01 GM 26494-04	99,427	82
ROE, BRUCE A CHEMISTRY	SEQUENCE ANALYSIS OF MAMMALIAN TRNA AND TRNA GENES PC		09-01-81 08-31-83	0	21600	7	R01 GM 30399-01	59,925	81
ROE, BRUCE A CHEMISTRY	THE ROLE OF MODIFIED NUCLEOTIDES IN MAMMALIAN TRNA PC		09-01-82 08-31-83	0	21320	5	R01 GM 30400-02	76,522	82
VAN DER HELM, DICK CHEMISTRY	STRUCTURE AND CONFORMATION OF SIDEROPHORES AND PEPTIDES BBCA		05-01-82 04-30-83	2	22550	5	R01 GM 21822-08	102,155	82
** 5 TOTAL								412,410	
OKLAHOMA CITY	OKLAHOMA MEDICAL RESEARCH FOUNDATION								
SCHMIDT, PAUL G LABORATORY OF PROTEIN STUDIES	ACID PROTEASE STRUCTURE, DYNAMICS AND MECHANISM BBCB		12-01-81 11-30-82	2	22500	2	R01 GM 25703-04	60,908	82
SCHMIDT, PAUL G LAB OF PROTEIN STUDIES	NMR OF TRANSFER RNA BBCB		04-01-81 03-31-83	0	21320	5	R01 GM 25261-04	37,005	81
TANG, JORDAN J LABORATORY OF PROTEIN STUDIES	STRUCTURE AND FUNCTION OF MAMMALIAN CATHEPSIN D PC		12-01-81 11-30-82	0	22500	5	R01 GM 20212-07	58,405	82
** 3 TOTAL								156,318	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
OKLAHOMA									
OKLAHOMA CITY	UNIVERSITY OF OKLAHOMA HLTH SCIENCES CTR								
RIKANS, LORA E	VITAMIN C DEFICIENCY AND MICROSOMAL ENZYMES								
PHARMACOLOGY	NTN		04-01-82 03-31-83	0	11880	5 R01 GM	26480-03	40,548	82
SOKATCH, JOHN R	BIOCHEMISTRY AND GENETICS OF LIPOAMIDE DEHYDROGENASE								
MICROBIOLOGY AND IMMUNOLOGY	SSS		07-01-82 06-30-83	2	22400	1 R01 GM	30428-01	71,528	82
** 2 TOTAL								112,076	
STILLWATER	OKLAHOMA STATE UNIVERSITY STILLWATER								
SPIVEY, HOWARD O	PROPERTIES OF CONCENTRATED ENZYME SOLUTIONS								
BIOCHEMISTRY	PC		04-01-82 03-31-83	0	22400	5 R01 GM	16916-09	46,381	82
YU, CHANG-AN	REACTION MECHANISMS OF MYOCARDIAL UBIQUINONE-PROTEINS								
BIOCHEMISTRY	BIO		09-01-81 02-28-83	0	22450	7 R01 GM	30721-01	116,022	81
** 2 TOTAL								162,403	
*** 0 *CENTERS								0	
*** 12 NONCENTER								843,207	
*** 12 TOTAL								843,207	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OREGON								
BEAVERTON	OREGON GRADUATE CTR STUDY AND RESEARCH							
HAUSER, FRANK M CHEMISTRY AND BIOCHEMICAL SCIS	STEREOSPECIFIC SYNTHESES OF SELECTED AMINO SUGARS MCHA	04-01-82 03-31-83	1	11910	5	R01 GM 26574-04	61,162	82
LOEHR, THOMAS M CHEMISTRY AND BIOCHEMICAL SCIS	LASER RAMAN SPECTROSCOPY OF METALLOPROTEINS BBCB	05-01-82 04-30-83	1	22500	5	R01 GM 18865-11	119,490	82
** 2 TOTAL							180,652	
CORVALLIS	OREGON STATE UNIVERSITY							
ISENBERG, IRVIN BIOCHEMISTRY AND BIOPHYSICS	STUDY OF HMG AND A24 PROTEINS PC	08-01-81 07-31-83	0	21600	5	R01 GM 25794-03	46,948	81
ISENBERG, IRVIN BIOCHEMISTRY AND BIOPHYSICS	PULSE FLUOROMETRY BBCA	02-01-82 01-31-83	2	12840	1	R01 GM 29336-01	57,538	82
JOHNSON, WALTER C, JR BIOCHEMISTRY AND BIOPHYSICS	NUCLEIC ACID CONFORMATION AND FUNCTION BBCA	12-01-81 11-30-82	3	21100	5	R01 GM 21479-08	79,710	82
MILLS, DALLICE I BOTANY	GENE EXPRESSION DURING MEIOSIS GEN	09-01-81 08-31-83	0	21700	5	R01 GM 24040-05	69,897	81
SMALL, ENOCH W BIOCHEMISTRY AND BIOPHYSICS	FLUORESCENE STUDIES OF NUCLEOSOME STRUCTURAL CHANGES BBCA	12-01-81 11-30-82	2	21600	2	R01 GM 25663-04	72,768	82
VAN HOLDE, KENSAL E BIOCHEMISTRY AND BIOPHYSICS	SUBUNIT STRUCTURE OF CHROMATIN MBY	04-01-82 03-31-83	2	21600	2	R01 GM 22916-07	99,104	82
** 6 TOTAL							425,965	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
OREGON										
EUGENE	UNIVERSITY OF OREGON									
BAJER, ANDREW S	MITOSIS EXPERIMENTAL STUDIES									
BIOLOGY	CBY		04-01-82 03-31-83	1	22250	5	R01 GM	26121-04	93,015	82
BERNHARD, SIDNEY A	KINETIC ANALYSIS OF ENZYME CATALYSIS									
INSTITUTE OF MOLECULAR BIOLOGY	BIO		07-01-82 06-30-83	3	22400	5	R01 GM	10451-18	94,682	82
DAHLQUIST, FREDERICK W	ENERGETICS AND DYNAMICS OF LIPID PROTEIN INTERACTIONS									
INSTITUTE OF MOLECULAR BIOLOGY	BBCB		01-01-82 12-31-82	3	22300	5	R01 GM	24792-05	87,749	82
GRIFFITH, O HAYES	SPIN LABELING AND MEMBRANE STRUCTURE									
INSTITUTE OF MOLECULAR BIOLOGY	BBCA		06-01-82 05-31-83	0	22300	5	R01 GM	25698-16	133,944	82
HAGUE, DONALD R	REGULATION OF SYNTHESIS OF CO2-FIXING ENZYMES OF MAIZE									
BIOLOGY	PC		08-01-82 07-31-83	2	21320	1	R01 GM	28744-01A1	56,327	82
HUDSON, BRUCE S	FLUORESCENCE STUDIES OF MOTION IN MEMBRANES									
CHEMISTRY	BBCB		06-01-82 05-31-83	2	22300	2	R01 GM	26536-03A1	55,436	82
HUDSON, BRUCE S	RESONANCE ENHANCED SPECTROSCOPY									
CHEMISTRY	BBCB		01-01-82 12-31-82	0	22500	5	R01 GM	26981-04	55,046	82
KEANA, JOHN F	NEW LABELS FOR STUDYING MEMBRANE PROTEINS									
CHEMISTRY	BBCB		06-01-82 05-31-83	1	22300	5	R01 GM	24951-08	95,865	82
KEANA, JOHN F	NEW PROBES AND REAGENTS FOR BIOLOGICAL STUDIES									
CHEMISTRY	MCHA		02-01-82 01-31-83	1	11940	5	R01 GM	27137-03	75,046	82
MATTHEWS, BRIAN W	STRUCTURE, FUNCTION AND STABILITY OF T4 PHAGE LYSOZYME									
INSTITUTE OF MOLECULAR BIOLOGY	BBCB		06-01-82 05-31-83	3	22550	5	R01 GM	21967-08	115,133	82
MATTHEWS, BRIAN W	X-RAY STRUCTURAL STUDIES OF PROTEINS									
INSTITUTE OF MOLECULAR BIOLOGY	BBCB		01-01-82 12-31-82	1	22550	5	R01 GM	20066-10	93,738	82
NOVITSKI, EDWARD	THE SYNTHESIS AND ANALYSIS OF CHROMOSOMES									
BIOLOGY	GEN		09-01-82 08-31-83	1	21600	5	R01 GM	18678-12	84,042	82
PETICOLAS, WARNER L	LASER RAMAN SCATTERING FROM BIOLOGICAL MACROMOLECULES									
CHEMISTRY	BBCB		09-01-82 08-31-83	0	22500	5	R01 GM	15547-16	105,580	82
POSTLETHWAIT, JOHN H	GENE AND HORMONE CONTROL OF DROSPHILA EGG PROTEINS									
BIOLOGY	GEN		12-01-81 11-30-82	2	21700	5	R01 GM	21548-08	85,346	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
OREGON											
EUGENE	UNIVERSITY OF OREGON										
RAYFIELD, GEORGE W PHYSICS	MEMBRANE BIOPHYSICS BBCA		09-24-82	08-31-83	2	22300	2	R01 GM	26669-04	69,674	82
SCHELLMAN, JOHN A INSTITUTE OF MOLECULAR BIOLOGY	INTERACTIONS OF NUCLEOTIDES AND PROTEINS BBCA		04-01-82	03-31-83	0	21100	5	R01 GM	20195-25	100,877	82
SPRAGUE, GEORGE F, JR INSTITUTE OF MOLECULAR BIOLOGY	GENETIC REGULATION OF YEAST CELL TYPE GEN		02-01-82	01-31-83	2	21750	1	R01 GM	30027-01	99,507	82
SPRAGUE, KAREN U INSTITUTE OF MOLECULAR BIOLOGY	CONTROL OF TRNA GENE EXPRESSION IN BOMBYX MORI GEN		08-01-82	07-31-83	3	21750	5	R01 GM	25388-05	114,342	82
STAHL, FRANKLIN W INSTITUTE OF MOLECULAR BIOLOGY	GENETIC RECOMBINATION IN YEAST--A MOLECULAR APPROACH GEN		02-01-82	01-31-83	1	21200	5	R01 GM	28369-02	78,074	82
STAHL, FRANKLIN W INSTITUTE OF MOLECULAR BIOLOGY	RECOMBINATIONAL INTERMEDIATES IN PHAGE LAMBDA VR		07-01-81	06-30-83	0	21200	5	R01 GM	20373-08	71,397	81
STREISINGER, GEORGE INSTITUTE OF MOLECULAR BIOLOGY	GENETIC STUDIES WITH ZEBRA FISH (BRACHYDANIO RERIO) GEN		03-01-82	02-28-83	4	21700	2	R01 GM	22731-07	205,479	82
VON HIPPEL, PETER H INSTITUTE OF MOLECULAR BIOLOGY	MOLECULAR INTERACTION IN T4 DNA REPLICATION COMPLEX MG		04-01-82	03-31-83	3	21100	5	R01 GM	29158-02	97,223	82
VON HIPPEL, PETER H INSTITUTE OF MOLECULAR BIOLOGY	STRUCTURE AND RELATIONS OF PROTEINS AND NUCLEIC ACIDS BBCA		01-01-82	12-31-82	0	21100	5	R01 GM	15792-16	155,923	82
** 23 TOTAL										2,223,445	
PORTLAND	OREGON HEALTH SCIENCES UNIVERSITY										
DOWNES, HALL PHARMACOLOGY	FATE AND EFFECTS OF LOCAL ANESTHETIC AEROSOLS SGYA		01-01-81	12-31-82	0	13200	5	R01 GM	24524-03	54,590	81
GREEN, TERRENCE R CLINICAL PATHOLOGY	ENZYMOLOGY OF SUPEROXIDE PRODUCTION BY HUMAN PMN'S SSS		05-01-82	04-30-83	2	22450	1	R01 GM	29335-01A1	42,007	82
** 2 TOTAL										96,597	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
OREGON									
PORTLAND	REED COLLEGE								
RUSSELL, PETER J BIOLOGY	MBY		A RIBOSOME BIOSYNTHESIS MUTANT OF NEUROSPORA 07-01-82 06-30-83	1	21320	5	R01 GM 22488-06	57,759	82
** 1 TOTAL								57,759	
*** 0 *CENTERS								0	
*** 34 NONCENTER								2,984,418	
*** 34 TOTAL								2,984,418	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA								
BETHLEHEM	LEHIGH UNIVERSITY							
DAVES, G DOYLE, JR CHEMISTRY	PALLADIUM CATALYZED SYNTHESIS OF C-NUCLEOSIDES MCHA	07-01-82 06-30-83	0	11930	5	R01 GM 30310-02	83,567	82
** 1 TOTAL							83,567	
HERSHEY	PENNSYLVANIA STATE UNIV HERSHEY MED CTR							
HILL, CHARLES W BIOLOGICAL CHEMISTRY	GENETICS AND BIOCHEMISTRY OF MISSENSE SUPPRESSION MG	09-01-82 08-31-83	2	21200	5	R01 GM 16329-15	158,413	82
HOPPER, ANITA K BIOLOGICAL CHEMISTRY	YEAST MUTANTS IN TRNA-TRANSCRIPTION AND MATURATION GEN	09-01-81 08-31-83	0	21320	5	R01 GM 27930-03	79,817	81
HOPPER, JAMES E BIOLOGICAL CHEMISTRY	MOLECULAR BASIS OF INTERCHROMOSOMAL GENE REGULATION MBY	09-01-82 08-31-83	1	21750	5	R01 GM 27925-04	119,639	82
PEGG, ANTHONY E PHYSIOLOGY	INVESTIGATIONS OF MAMMALIAN AMINOPROPYLTRANSFERASES BIO	04-01-82 03-31-83	4	22400	2	R01 GM 26290-04	86,893	82
ROSE, GEORGE D BIOLOGICAL CHEMISTRY	HIERARCHIC SELF-ASSEMBLY IN GLOBULAR PROTEINS BBCA	12-01-81 11-30-82	0	22500	5	R01 GM 29458-02	30,554	82
ROSE, KATHLEEN M PHARMACOLOGY	REGULATION OF RNA POLYMERASE I GENE EXPRESSION BIO	07-01-82 06-30-83	1	21310	5	R01 GM 26740-04	41,501	82
** 6 TOTAL							516,817	
PHILADELPHIA	CHILDREN'S HOSPITAL OF PHILADELPHIA							
ONORATO-SHOWE, LOUISE C DIV DEMATOLOGY	GENE REARRANGEMENTS/THE GENERATION OF ANTIBODY DIVERSITY MGN	09-01-82 06-30-83	2	21600	7	R01 GM 32019-01	43,070	82
** 1 TOTAL							43,070	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PHILADELPHIA	HAHNEMANN MED COL & HOSP OF PHILADELPHIA								
DAMJANOV, IVAN	ACTIVATION OF PRIMORDIAL GERM CELLS TO FORM TERATOMAS								
PATHOLOGY AND LAB MEDICINE	PTHB		05-01-82 04-30-83	1	22200	5	R01 GM 29040-02	85,704	82
GILLESPIE, DAVID H	STRUCTURE AND FUNCTION OF REPEATED DNA IN PRIMATES								
MEDICAL ONCOLOGY & HEMATOLOGY	MGN		01-01-82 12-31-82	0	21800	5	R01 GM 27270-03	126,038	82
JORNS, MARILYN S	FLAVOENZYME MECHANISMS: REDOX AND NON-REDOX REACTIONS								
BIOLOGICAL CHEMISTRY	PB		08-01-82 07-31-83	2	22400	1	R01 GM 31704-01	75,105	82
OHNISHI, S TSUYOSHI	EFFECT OF ANESTHETICS ON CARDIAC SARCOPLASMIC RETICULUM								
ANESTHESIOLOGY	SAT		05-01-82 04-30-83	2	13200	1	R01 GM 30703-01	72,079	82
ROTTENBERG, HAGAI	MEMBRANE REGULATION OF MITOCHONDRIAL METABOLISM								
PATHOLOGY AND LAB MEDICINE	PB		07-01-82 06-30-83	0	22450	5	R01 GM 28173-03	96,133	82
** 5 TOTAL								455,059	
PHILADELPHIA	INSTITUTE FOR CANCER RESEARCH								
BERMAN, HELEN	MODEL COMPOUNDS FOR NUCLEIC ACID INTERACTIONS								
NONE	BBCA		12-01-81 11-30-82	2	21100	5	R01 GM 21589-08	85,407	82
COHEN, LEONARD H	THE ROLES OF HISTONE SUBTYPES IN DEVELOPMENT								
NONE	MBY		04-01-82 03-31-83	2	21700	2	R01 GM 24019-06	134,927	82
DUNCAN, BRUCE K	ENZYMES AND MUTANTS OF DNA METABOLISM								
NONE	MBC		04-01-82 03-31-83	0	21600	5	R01 GM 27813-03	53,710	82
MARKHAM, GEORGE D	ENZYMATIC MECHANISMS OF SULFUR-NUCLEOSIDE BIOSYNTHESIS								
NONE	BIO	1	07-01-82 06-30-83	2	22400	1	R01 GM 31186-01	78,214	82
RIGNEY, DAVID R	COMPARISON OF SIBLING CELLS								
NONE	CP		02-01-82 01-31-83	2	22200	1	R01 GM 30236-01	126,045	82
ROSE, IRWIN A	MECHANISMS OF PROTON AND PHOSPHORYL TRANSFER								
NONE	PC		01-01-82 12-31-82	1	22400	5	R01 GM 20940-19	100,159	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
PENNSYLVANIA											
PHILADELPHIA			INSTITUTE FOR CANCER RESEARCH								
ROSE, ZELDA B / NONE	PC		ENZYMES OF 2,3-DIPHOSPHOGLYCERATE METABOLISM / 09-01-82	08-31-83	2	22400	5	R01 GM	19875-11	106,758	82
TARTOF, KENNETH D / NONE	GEN		STRUCTURE AND FUNCTION OF GENES / 05-01-82	04-30-83	2	21600	5	R01 GM	19194-11	166,795	82
WEIGERT, MARTIN G / NONE	ALY		THE GENETIC CONTROL OF ANTIBODY DIVERSITY AND EXPRESSION / 01-01-82	12-31-82	4	21700	2	R01 GM	20964-09	224,196	82
** 9 TOTAL										1,076,211	
PHILADELPHIA			MEDICAL COLLEGE OF PENNSYLVANIA								
DI BERARDINO, MARIE A / ANATOMY	CBY		NORMAL DIFFERENTIATION AND CARCINOGENESIS / 04-01-82	03-31-83	1	21700	5	R01 GM	23635-05	117,144	82
** 1 TOTAL										117,144	
PHILADELPHIA			TEMPLE UNIVERSITY								
BASERGA, RENATO L / PATHOLOGY	PTHB		CHROMOSOMAL PROTEINS IN CELL PROLIFERATION / 03-01-82	02-28-83	1	21600	5	R01 GM	22359-07	74,031	82
DE RIEL, JON K / FELS RESEARCH INSTITUTE	MBY		MOLECULAR BIOLOGY OF ERYTHROID DIFFERENTIATION / 01-01-82	12-31-82	1	21700	5	R01 GM	28557-02	87,691	82
HARPER, ROBERT A / DERMATOLOGY	GMA		EPIDERMAL GROWTH FACTOR IN HUMAN SKIN AND DISEASE / 09-01-82	08-31-83	0	13420	5	R01 GM	29257-03	119,269	82
HILLMAN, RALPH / BIOLOGY	GEN		GENETIC TRANSLATION AS A CELLULAR CONTROL MECHANISM / 03-01-81	02-28-83	0	21700	5	R01 GM	18080-09	61,625	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER		TOTAL DOLLARS	FY
PENNSYLVANIA								
PHILADELPHIA	TEMPLE UNIVERSITY							
KEEN, JAMES H / FELS RESEARCH INSTITUTE	CLATHRIN AND MEMBRANE FUNCTION / CP	12-01-81 11-30-82	1	22300	5 R01 GM	28526-02	80,561	82
SCHOTT, HANS / PHARMACEUTICS	EFFECT OF ELECTROLYTES ON NONIONIC SURFACTANTS / PHRA	06-01-82 05-31-83	0	11850	5 R01 GM	27802-03	39,528	82
SCHRAMM, VERN L / BIOCHEMISTRY	REGULATION OF ADENINE NUCLEOTIDE POOLS / BIO	02-01-82 01-31-83	0	22400	5 R01 GM	21083-07	55,584	82
SUHADOLNIK, ROBERT J / BIOCHEMISTRY	CELLULAR ROLE OF NAD, NAD ANALOGS, QTRNA & BIOSYNTHESIS / PC	06-01-82 05-31-83	1	22400	5 R01 GM	26134-09	107,468	82
THOMPSON, ROBERT C / CHEMISTRY	ACCURACY OF PROTEIN BIOSYNTHESIS / PC	05-01-82 04-30-83	4	21320	2 R01 GM	24983-04	97,079	82
TOMPKINS, LAURIE / BIOLOGY	NEUROGENETICS OF CHEMOSENSORY BEHAVIOR IN DROSOPHILA / GEN	04-01-82 03-31-83	1	21800	5 R01 GM	28998-02	52,873	82
** 10 TOTAL							775,709	
PHILADELPHIA	THOMAS JEFFERSON UNIVERSITY							
FLYNN, JOHN T / PHYSIOLOGY	RELATIONSHIPS BETWEEN PROSTANOIDS AND CELLULAR INJURY / SAT	09-01-82 08-31-83	0	13420	5 R01 GM	28023-03	49,545	82
SPATH, JAMES A, JR / PHYSIOLOGY	SEROTONIN AND OPIATE INTERACTIONS IN HEMORRHAGIC SHOCK / SAT	05-01-82 04-30-83	2	13410	1 R01 GM	30473-01	97,289	82
** 2 TOTAL							146,834	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
PENNSYLVANIA										
PHILADELPHIA	UNIVERSITY CITY SCIENCE CENTER									
CHANCE, BRITTON / INST FOR STRUCTURAL BIOLOGY	METALLOENZYMES, PROTEINS, AND MODELS / SSS		08-01-82 01-31-83	1	12840	7	R01 GM	31992-01	149,455	82
** 1 TOTAL									149,455	
PHILADELPHIA	UNIVERSITY OF PENNSYLVANIA									
ADAMS, SHERRILL L / HUMAN GENETICS	ANALYSIS OF HUMAN COLLAGEN GENE EXPRESSION / MGN		08-01-82 07-31-83	0	21400	5	R01 GM	28840-03	102,922	82
AVADHANI, NAVAYAN G / ANIMAL BIOLOGY	MITOCHONDRIAL GENES AND PLASMIDS IN MAMMALIAN CELLS / PBC		05-01-82 04-30-83	3	21280	1	R01 GM	29037-01A1	93,804	82
BRIGHT, HAROLD J / BIOCHEMISTRY AND BIOPHYSICS	MECHANISM OF ENZYME ACTION / PC		04-01-82 03-31-83	0	22400	5	R01 GM	11040-18	152,716	82
CHANCE, BRITTON / JOHNSON FDN FOR MED PHYSICS	MECHANISM OF ELECTRON TRANSFER REACTIONS IN MITOCHONDRIA / BBCB		05-01-82 04-30-83	1	22450	5	R01 GM	27308-04	154,343	82
COHN, MILDRED / BIOCHEMISTRY AND BIOPHYSICS	NMR AND EPR STUDIES OF ENZYME-NUCLEOTIDE INTERACIONS / BBCB		09-01-81 02-28-83	0	22500	5	R01 GM	12446-18	168,695	81
DONOHUE, JERRY / CHEMISTRY	STRUCTURAL STUDIES: CONFORMATIONS AND HYDROGEN BONDS / BBCA		12-01-81 11-30-82	2	22550	2	R01 GM	20611-06	40,442	82
DUTTON, PETER L / BIOCHEMISTRY AND BIOPHYSICS	ELECTRON AND PROTON TRANSLOCATION IN ENERGY CONVERSION / BBCB		05-01-82 04-30-83	1	22450	5	R01 GM	27309-04	153,590	82
ECCLESTON, JOHN F / BIOCHEMISTRY AND BIOPHYSICS	ENERGY TRANSDUCTION IN PROTEIN BIOSYNTHESIS / PC		07-01-82 06-30-83	1	21320	5	R01 GM	29603-02	101,977	82
ENGLANDER, S WALTER / BIOCHEMISTRY AND BIOPHYSICS	STUDIES OF STRUCTURE AND DYNAMICS IN NUCLEIC ACID SYSTEM / PC		09-01-82 08-31-83	2	21100	5	R01 GM	29272-02	50,709	82
EWENS, WARREN J / BIOLOGY	STOCHASTIC PROCESSES IN GENETIC POPULATIONS / GEN		07-01-82 06-30-83	0	21800	5	R01 GM	21135-09	23,450	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PHILADELPHIA			UNIVERSITY OF PENNSYLVANIA						
FREY, TERRENCE G BIOCHEMISTRY AND BIOPHYSICS	BBCB		HIGH RESOLUTION ELECTRON MICROSCOPY OF MACROMOLECULES 04-01-82 03-31-83	1	12930	5	R01 GM 28750-02	82,101	82
FURTH, JOHN J PATHOLOGY AND LAB MEDICINE	PC		RNA METABOLISM IN MAMMALIAN CELLS 08-01-82 07-31-83	0	21750	5	R01 GM 10390-19	117,853	82
GARFINKEL, DAVID COMPUTER AND INFORMATION SCIS	SSS		COMPUTER MODELING METHODS FOR METABOLIC SYSTEMS 04-01-81 03-31-83	0	12100	5	R01 GM 16501-12	104,970	81
GOODGAL, SOL H MICROBIOLOGY	MBC		TRANSFORMATION IN HAEMOPHILUS 07-01-82 06-30-83	2	21200	5	R01 GM 24915-21	134,231	82
GOTS, JOSEPH S MICROBIOLOGY	BIO		BIOSYNTHESIS AND INTERCONVERSION OF PURINE NUCLEOTIDES 06-01-82 05-31-83	3	22400	5	R01 GM 29500-27	113,289	82
GUILD, GREGORY M BIOLOGY	GEN		EUKARYOTIC GENES: STRUCTURE, FUNCTION, AND REGULATION 07-01-82 06-30-83	0	21700	5	R01 GM 28228-03	110,026	82
HARRIS, HARRY HUMAN GENETICS	MGN		INHERITED HUMAN ENZYME DIVERSITY 03-01-82 02-28-83	2	21400	5	R01 GM 27018-06	151,300	82
HOCHSTRASSER, ROBIN M CHEMISTRY	BBCA		PHOTOPROCESSES IN THE ORGANIC SOLID STATE 02-01-82 01-31-83	4	12840	2	R01 GM 12592-18	156,566	82
HORWITZ, ALAN F BIOCHEMISTRY AND BIOPHYSICS	CP		DETERMINANTS OF MYOGENIC MEMBRANE PHENOMENA 07-01-82 06-30-83	4	22300	2	R01 GM 23244-07	175,787	82
KAJI, AKIRA MICROBIOLOGY	PC		BIOCHEMICAL CONTROL OF MACROMOLECULAR SYNTHESIS 01-01-82 12-31-82	0	21320	5	R01 GM 12053-18	71,598	82
KALLEN, ROLAND G BIOCHEMISTRY AND BIOPHYSICS	BIO		BIOCHEMICAL CATALYSIS MECHANISMS--C-C & C-N BONDS 12-01-81 11-30-82	2	22400	5	R01 GM 13777-15	133,398	82
KALLEN, ROLAND G BIOCHEMISTRY AND BIOPHYSICS	BIO		NUCLEIC ACID SEQUENCES IN MULTIGENE FAMILIES 01-01-82 12-31-82	1	21750	5	R01 GM 28628-02	86,950	82
KAUFFMAN, STUART A BIOCHEMISTRY AND BIOPHYSICS	GEN		SEQUENTIAL DEVELOPMENTAL COMMITMENTS IN DROSOPHILA 06-01-82 05-31-83	2	21700	2	R01 GM 22341-07	135,058	82
LEIGH, JOHN S, JR BIOCHEMISTRY AND BIOPHYSICS	BMT		SPATIAL ORGANIZATION OF ELECTRON TRANSPORT SYSTEMS 04-01-82 03-31-83	3	22450	5	R01 GM 25052-05	187,702	82

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PHILADELPHIA			UNIVERSITY OF PENNSYLVANIA						
LO, CECILIA W / BIOLOGY	GEN		GAP JUNCTIONAL COMMUNICATION IN DROSOPHILA IMAGINAL DISC / 05-01-82 04-30-83	2	22200	1	R01 GM 30461-01	113,744	82
LU, PONZY / CHEMISTRY	BBCB		SPECIFIC PROTEIN-DNA COMPLEXES: STRUCTURE AND DYNAMICS / 03-01-82 02-28-83	4	21750	2	R01 GM 22623-07	135,185	82
MARSHALL, BRYAN E / ANESTHESIA	SAT		ANESTHESIA & HYPOXIC PULMONARY VASOCONSTRICTION / 07-01-82 06-30-83	1	13200	5	R01 GM 29628-02	148,553	82
MISELIS, RICHARD R / ANIMAL BIOLOGY	BPO		BEHAVIORAL NEURAL SUBSTRATE MEDIATING WATER BALANCE / 09-01-82 08-31-83	0	13700	5	R01 GM 27739-03	52,911	82
MUELLER, PAUL H / BIOCHEMISTRY AND BIOPHYSICS	BBCB		RECONSTITUTION AND ANALYSIS OF MEMBRANE TRANSPORT / 09-01-82 08-31-83	1	22300	5	R01 GM 25256-06	100,008	82
MURRAY, JOHN M / ANATOMY	CTY		STUDY OF MEMBRANE-CYTOSKELETON COMPLEXES / 07-01-82 06-30-83	2	22250	1	R01 GM 30814-01	114,822	82
NICOLAOU, KYRIACOS C / CHEMISTRY	MCHA		"TOTAL SYNTHESIS OF MACROLIDE ANTIBIOTICS" / 09-01-82 08-31-83	1	11910	2	R01 GM 26879-04	128,102	82
OPELLA, STANLEY J / CHEMISTRY	BBCB		NMR STUDIES OF BIOLOGICAL SUPRAMOLECULAR STRUCTURES / 08-01-82 07-31-83	0	22500	5	R01 GM 24266-06	116,368	82
OPELLA, STANLEY J / CHEMISTRY	BBCB		SOLID STATE NMR OF PEPTIDES / 01-01-82 12-31-82	2	22500	1	R01 GM 29754-01	63,871	82
SANGER, JOSEPH W / ANATOMY	CBY		ANALYSIS OF CELL DIVISION AND CELL MOTILITY / 09-01-82 08-31-83	2	22250	5	R01 GM 25653-05	144,217	82
SCHMICKEL, ROY / HUMAN GENETICS	SSS		HUMAN GENETICS CENTER SUPPORT / 05-01-82 04-30-83	1	21911	*5	P50 GM 20138-09	855,548	82
SHAPIRO, BERNARD H / ANIMAL BIOLOGY	PHRA		DEVELOPMENTAL ORGANIZERS OF DRUG METABOLISM / 04-01-81 03-31-83	0	11880	5	R01 GM 26222-03	94,364	81
SMITH, AMOS B, III / CHEMISTRY	MCHA		THE MILBEMYCINS: POTENTIAL ANTILEUKEMIC AGENTS / 04-01-82 03-31-83	1	11910	5	R01 GM 29028-02	88,469	82
SMITH, DAVID S / ANESTHESIA	SAT		THE ROLE OF HYPOXIA IN THE PRODUCTION OF CEREBRAL EDEMA / 07-01-82 06-30-83	1	13250	5	R23 GM 29664-02	55,729	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
PENNSYLVANIA									
PHILADELPHIA	UNIVERSITY OF PENNSYLVANIA								
TATCHELL, KELLY G	REGULATION OF THE SILENT MATING TYPE GENES IN YEAST								
BIOLOGY	GEN	07-01-82 06-30-83	1	21700	5	R01 GM	29473-02	105,528	82
VOET, DONALD H	THE X-RAY STRUCTURE OF YEAST PYROPHOSPHATASE								
CHEMISTRY	BBCB	04-01-82 03-31-83	2	22550	2	R01 GM	20568-06	106,495	82
WEINBERG, ERIC S	HISTONE GENES AND THEIR TRANSCRIPTION								
BIOLOGY	MBY	07-01-82 06-30-83	3	21750	5	R01 GM	27322-04	156,567	82
WILSON, DAVID F	REGULATION AND 02 DEPENDENCE OF CELLULAR METABOLISM								
BIOCHEMISTRY AND BIOPHYSICS	BIO	12-01-81 11-30-82	2	22450	5	R01 GM	21524-08	101,688	82
WILSCN, DAVID F	OXIDATIVE PHOSPHORYLATION IN BIOLOGICAL MEMBRANES								
BIOCHEMISTRY AND BIOPHYSICS	SSS	05-01-82 04-30-83	0	22450	5	P01 GM	12202-19	500.653	82
WOLFE, BARRY B	REGULATION OF MUSCARINIC CHOLINERGIC RECEPTORS								
PHARMACOLOGY	PHRA	08-01-82 07-31-83	2	11770	1	R01 GM	31155-01	92,216	82
** 44 TOTAL								6,078,515	
PHILADELPHIA	WISTAR INSTITUTE OF ANATOMY AND BIOLOGY								
BECHTOL, KATHLEEN B	IMMUNOCHEMICAL APPROACH TO SPERMATOGENESIS								
NONE	HED	09-01-82 08-31-83	1	22200	5	R01 GM	23892-05	126,672	82
CROCE, CARLO M	ENZYME MARKERS IN THE MAPPING OF HUMAN GENES								
WISTAR INSTITUTE	GEN	12-01-81 11-30-82	0	21480	5	R01 GM	20700-08	111,532	82
MAUL, GERD G	QUANTITATIVE STUDY OF NUCLEAR & ANNULATE LAMELLAE PORES								
NONE	CTY	12-01-81 11-30-82	0	22300	5	R01 GM	21615-07	108,927	82
NISHIKURA, KAZUKO	ROLE OF RNA PROCESSING IN CELL DIFFERENTIATION								
NONE	CTY	08-01-82 07-31-83	2	21750	1	R01 GM	31060-01	124,400	82
** 4 TOTAL								471,531	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PITTSBURGH	CARNEGIE-MELLON UNIVERSITY								
BROWN, WILLIAM E BIOLOGICAL SCIENCES	STRUCTURAL STUDIES OF DNA POLYMERASE 1 BIO		01-01-82 12-31-82	1	21200	5 R01 GM	24688-05	91,661	82
HITCHCOCK, SARAH E BIOLOGICAL SCIENCES	MOLECULAR BIOLOGY OF REGULATION OF CONTRACTION CTY		09-01-82 08-31-83	0	22250	5 R01 GM	28830-06	57,584	82
HO, CHIEN BIOLOGICAL SCIENCES	NMR AND BIOCHEMICAL STUDIES OF BIOLOGICAL MEMBRANES BBCB		01-01-82 12-31-82	4	22300	2 R01 GM	26874-04	178,975	82
JONES, ELIZABETH W BIOLOGICAL SCIENCES	GENETIC ANALYSIS OF ENZYME PROCESSING & LOCALIZATION GEN		07-01-82 06-30-83	1	21320	5 R01 GM	29713-02	115,249	82
MC CLURE, WILLIAM R BIOLOGICAL SCIENCES	MECHANISM AND REGULATION OF E COLI RNA POLYMERASE MG		07-01-82 06-30-83	2	21310	5 R01 GM	30375-02	88,487	82
MC CLURE, WILLIAM R BIOLOGICAL SCIENCES	MECHANISM AND REGULATION OF E COLI RNA POLYMERASE MG		07-01-82 06-30-83	2	21310	3 R01 GM	30375-02S1	55,569	82
MINKLEY, EDWIN G, JR BIOLOGICAL SCIENCES	CONJUGAL TRANSFER OF PLASMIDS MG		08-01-82 07-31-83	0	21280	5 R01 GM	28925-03	101,690	82
NAGLE, JOHN F PHYSICS	THERMODYNAMIC MEASUREMENTS ON MEMBRANES BBCB		12-01-81 11-30-82	2	22300	2 R01 GM	21128-08	68,567	82
PRESTON, KENDALL, JR ELECTRICAL ENGINEERING	COMPUTED TISSUE STEREOLOGY SSS		01-01-82 12-31-82	2	12990	5 R01 GM	28221-02	176,815	82
WOOLFORD, JOHN L, JR BIOLOGICAL SCIENCES	YEAST RIBOSOMAL PROTEIN GENES: STRUCTURE AND FUNCTION GEN		08-01-82 07-31-83	0	21750	5 R01 GM	28301-03	94,705	82
** 9 TOTAL								1,029,302	
PITTSBURGH	DUQUESNE UNIVERSITY								
CASTRIC, PETER A BIOLOGICAL SCIENCES	PURIFICATION AND CHARACTERIZATION OF UREA AMIDOYLASE BIO		12-01-80 11-30-82	0	22400	5 R01 GM	20419-05	42,695	81

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PITTSBURGH	DUQUESNE UNIVERSITY								
SEYBERT, DAVID W CHEMISTRY	CYTOCHROME P-450 CATALYZED STEROID HYDROXYLATIONS PB		12-01-81 11-30-82	1	22400	5	R01 GM 28547-02	61,660	82
** 2 TOTAL								104,355	
PITTSBURGH	UNIVERSITY OF PITTSBURGH								
ASHER, SANFORD A CHEMISTRY	UV RESONANCE RAMAN STUDIES OF PROTEIN STRUCTURE BBCB		06-01-82 05-31-83	2	12840	1	R01 GM 30741-01	129,026	82
BENTLEY, RONALD BIOLOGICAL SCIENCES	BIOSYNTHESIS OF VITAMIN K MBC		09-01-82 08-31-83	4	11910	2	R01 GM 20053-18	138,690	82
CAMPBELL, IAIN M BIOLOGICAL SCIENCES	RADIOGAS CHROMATOGRAPH/QUADRUPOLE MASS SPECTROMETY BMT		01-01-81 12-31-82	0	12840	5	R01 GM 25592-03	75,546	81
CHAPMAN, TOBY M CHEMISTRY	GRAFT POLYMERS AS SUPPORTS FOR NUCLEIC ACID SYNTHESIS BNP		07-01-82 06-30-83	0	21100	5	R01 GM 26870-03	57,959	82
CHUNG, ALBERT E BIOLOGICAL SCIENCES	CHARACTERIZATION BASEMENT MEMBRANE GLYCOPROTEINS CTY		01-01-82 12-31-82	2	22410	5	R01 GM 25690-04	101,559	82
COHEN, THEODORE CHEMISTRY	NEW METHODS FOR SYNTHESIS AND MODIFICATION OF RINGS MCHA		09-01-82 08-31-83	1	11940	5	R01 GM 22760-07	104,983	82
COOPER, TERRANCE G BIOLOGICAL SCIENCES	SYNTHESIS AND ASSEMBLY OF EUCARYOTIC MEMBRANES BIO		01-01-82 12-31-82	1	22300	5	R01 GM 24383-04	80,429	82
COOPER, TERRANCE G BIOLOGICAL SCIENCES	SYNTHESIS AND ASSEMBLY OF ENZYMES IN EUCARYOTES PC		05-01-82 04-30-83	2	21320	5	R01 GM 19386-11	124,813	82
COOPER, TERRANCE G BIOLOGICAL SCIENCES	GENETICS AND ISOLATION OF A EUCARYOTIC CONTROL PROTEIN PC		12-01-81 11-30-82	4	21320	2	R01 GM 20693-06	72,276	82
CRAVEN, BRYAN M CRYSTALLOGRAPHY	CHARGE DENSITY IN BARBITURATE CRYSTAL STRUCTURES BBCA		07-01-81 12-31-82	0	11870	5	R01 GM 22548-20	53,501	81

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA									
PITTSBURGH	UNIVERSITY OF PITTSBURGH								
CRAVEN, PATRICIA A / MEDICINE	HEME-DEPENDENT ACTIVATION OF GUANYLATE CYCLASE / BIO		03-01-82 08-31-83	0	22400	5	R01 GM 28368-03	66,988	82
DOWD, PAUL / CHEMISTRY	SYNTHESIS OF VITAMIN B12 MODELS / BNP		12-01-81 11-30-82	2	11920	2	R01 GM 19906-06	88,446	82
GRUNDY, BETTY L / ANESTHESIOLOGY	EFFECTS OF ANESTHETICS ON CORTICAL EVOKED POTENTIALS / SGYA		05-01-81 10-31-82	0	13250	5	R23 GM 27942-03	45,338	81
HOUK, KENDALL N / CHEMISTRY	STEREOSELECTIVITIES OF SYNTHETIC ORGANIC REACTIONS / MCHA		02-01-82 01-31-83	2	11940	1	R01 GM 30293-01	121,350	82
JACOBSON, LEWIS A / BIOLOGICAL SCIENCES	BIOCHEMISTRY OF TRANSLATION CONTROL IN E COLI / MBC		04-01-82 03-31-83	1	21320	1	R01 GM 30588-01	50,460	82
JEFFREY, GEORGE A / CRYSTALLOGRAPHY	STRUCTURAL STUDIES OF CARBOHYDRATES / BBCA		01-01-82 12-31-82	0	22550	5	R01 GM 24526-05	104,482	82
JEFFREY, GEORGE A / CRYSTALLOGRAPHY	CRYSTAL STRUCTURE PHASE DETERMINATION / BBCB		04-01-82 03-31-83	1	22550	5	R01 GM 28848-02	43,898	82
KHAN, SALEEM A / MICROBIOLOGY	PLASMID PT181 DNA REPLICATION IN STAPHYLOCOCCUS AUREUS / MG		07-01-82 06-30-83	2	21200	1	R01 GM 31685-01	105,812	82
LAUFFER, MAX A / BIOLOGICAL SCIENCES	INTERACTIONS OF TOBACCO MOSAIC VIRUS AND ITS COMPONENTS / BBCB		03-01-82 02-28-83	1	21100	5	R01 GM 21619-08	103,303	82
MC CLURE, RICHARD J / CRYSTALLOGRAPHY	CRYSTAL STRUCTURAL STUDIES OF SERUM ALBUMIN / BBCB		07-01-81 12-31-82	0	22550	5	R01 GM 21164-08	75,857	81
REBEK, JULIUS, JR / CHEMISTRY	NEW EPOXIDATION REAGENTS / MCHA		04-01-82 03-31-83	0	11940	5	R01 GM 27932-03	71,172	82
REBEK, JULIUS, JR / CHEMISTRY	STUDIES IN CATALYSIS AND MECHANISM / BNP		12-01-81 11-30-82	2	11920	2	R01 GM 25912-04	92,205	82
ROSENBERG, JOHN M / BIOLOGICAL SCIENCES	STRUCTURE AND FUNCTION OF ECORI ENDONUCLEASE / BBCA		07-01-82 06-30-83	1	21200	5	R01 GM 25671-05	81,146	82
ROSENBERG, JOHN M / BIOLOGICAL SCIENCES	SEQUENCE SPECIFIC DNA PROTEIN INTERACTIONS / BBCA		04-01-82 03-31-83	1	21200	5	R01 GM 29207-02	90,852	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
PENNSYLVANIA							
PITTSBURGH	**UNIVERSITY OF PITTSBURGH**						
STILLER, RICHARD L / PSYCHIATRY	CARDIOVASCULAR DYNAMICS AND ANESTHETIC DISPOSITION / SGYA	05-01-81 11-30-82	0	13200	5 R01 GM 27340-03	104,428	81
STOUT, CHARLES D / CRYSTALLOGRAPHY	CRYSTAL STRUCTURES OF AZOTOBACTER PROTEINS / BBCB	08-01-82 07-31-83	3	22550	5 R01 GM 25672-05	106,667	82
SUSSMAN, MAURICE / BIOLOGICAL SCIENCES	BIOCHEMISTRY/GENETICS OF MORPHOGENESIS IN D DISCOIDEUM / MBC	02-01-82 01-31-83	2	22200	1 R01 GM 29776-01	91,144	82
WALSH, CHARLES J / BIOLOGICAL SCIENCES	GENE REGULATION DURING DIFFERENTIATION OF NAEGLERIA / MBY	09-01-82 08-31-83	0	22200	5 R01 GM 23516-06	80,657	82
WEBER, STEPHEN G / CHEMISTRY	CATALYTIC PHOTOELECTROCHEMICAL IMMUNOASSAY / SSS	07-01-82 06-30-83	0	12820	5 R01 GM 28112-03	52,650	82
WIDNELL, CHRISTOPHER C / ANATOMY AND CELL BIOLOGY	PLASMA MEMBRANE STRUCTURE, FUNCTION, AND BIOGENESIS / MBY	07-01-82 06-30-83	3	22300	5 R01 GM 17724-12	139,416	82
** 30 TOTAL						2,655,053	
UNIVERSITY PARK	**PENNSYLVANIA STATE UNIVERSITY UNIV PARK**						
BENKOVIC, STEPHEN J / CHEMISTRY	THE TRANSFORMYLASE ENZYMES / ET	07-01-82 06-30-83	4	22400	2 R01 GM 24129-06	147,929	82
BENKOVIC, STEPHEN J / CHEMISTRY	PHOSPHATE ACTIVATION MECHANISMS / BIO	01-01-82 12-31-82	3	11920	5 R01 GM 13306-17	162,450	82
DE SHONG, PHILIP R / CHEMISTRY	NITRONE CYCLOADDITIONS/THE SYNTHESIS OF AMINO SUGARS / MCHA	09-22-82 08-31-83	2	11940	1 R01 GM 30743-01	90,929	82
DEERING, REGINALD A / BIOCHEM/MICRO/MOLECU/CELL BIOL	DNA REPAIR IN SLIME MOLD / RAD	05-01-82 04-30-83	2	21250	5 R01 GM 16620-13	125,047	82
HAMILTON, GORDON A / CHEMISTRY	SOME OXIDASE CATALYZED REACTIONS INVOLVING GLYOXYLATE / BIO	12-01-81 11-30-82	0	22400	5 R01 GM 27083-03	46,098	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
PENNSYLVANIA										
UNIVERSITY PARK	PENNSYLVANIA STATE UNIVERSITY UNIV PARK									
HORROCKS, WILLIAM D, JR	NEW LANTHANIDE PROBES OF PROTEIN STRUCTURE									
CHEMISTRY	BBCA	01-01-82	12-31-82	0	22500	5	R01 GM	23599-06	74,221	82
JOHNSON, KENNETH A	KINETIC ANALYSIS OF THE DYNEIN ATPASE MECHANISM									
BIOCHEM/MICRO/MOLECU/CELL BIOL	CBY	07-01-82	06-30-83	2	22250	2	R01 GM	26726-04	118,950	82
MATTHEWS, CHARLES R	REVERSIBLE UNFOLDING OF NATIVE AND MUTANT PROTEINS									
CHEMISTRY	BBCA	07-01-82	06-30-83	2	22500	2	R01 GM	23303-07	97,742	82
MATTHEWS, CHARLES R	CHEMICAL TRAPPING OF INTERMEDIATES IN PROTEIN FOLDING									
CHEMISTRY	BBCA	01-01-82	12-31-82	1	22500	5	R01 GM	24570-05	40,422	82
PERSON, STANLEY	IN VITRO MUTAGENESIS OF DNA									
BIOCHEM/MICRO/MOLECU/CELL BIOL	MG	01-01-82	12-31-82	1	21250	5	R01 GM	27819-02	79,268	82
PORTER, RONALD D	EFFECTS OF DNA SUBSTRATES ON RECOMBINATION IN E. COLI									
BIOCHEM/MICRO/MOLECU/CELL BIOL	MG	04-01-82	03-31-83	2	21200	2	R01 GM	26422-04	76,391	82
PORTER, RONALD D	DEVELOPMENT OF GENETIC ANALYSIS IN BLUE-GREEN ALGAE									
BIOCHEM/MICRO/MOLECU/CELL BIOL	MG	02-01-82	01-31-83	1	21780	5	R01 GM	28609-02	82,007	82
VILLAFRANCA, JOSEPH J	MECHANISTIC STUDIES OF HYDROXYLASES									
CHEMISTRY	BIO	04-01-82	03-31-83	1	22400	5	R01 GM	29139-02	105,574	82
VILLAFRANCA, JOSEPH J	STRUCTURE AND CONTROL OF GLUTAMINE SYNTHETASES									
CHEMISTRY	BMT	01-01-82	12-31-82	2	22400	5	R01 GM	23529-06	84,218	82
WEDLER, FREDERICK C	CATALYTIC AND REGULATORY MECHANISMS OF KEY ENZYMES									
BIOCHEM/MICRO/MOLECU/CELL BIOL	BIO	09-01-82	08-31-83	0	22400	5	R01 GM	26582-05	79,321	82
WEINREB, STEVEN M	SYNTHESIS OF SECURINEGA ALKALOIDS									
CHEMISTRY	MCHA	04-01-82	03-31-83	1	11910	5	R01 GM	28790-02	80,568	82
** 16 TOTAL									1,491,135	
*** 1 *CENTERS									144,217	
*** 140 NONCENTER									15,049,540	
*** 141 TOTAL									15,193,757	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
RHODE ISLAND									
KINGSTON	GORDON RESEARCH CONFERENCES								
BOTSTEIN, DAVID	GORDON CONFERENCE ON BIOLOGICAL REGULATORY MECHANISMS								
	CTY		06-10-82 05-31-83	0	21320	1	R13 GM 31250-01	2,000	82
HENDRICKSON, WAYNE A	GORDON CONFERENCE ON DIFFRACTION METHODS IN BIOLOGY								
NONE	BBCB		05-17-82 04-30-83	0	22550	1	R13 GM 30505-01	2,000	82
HUDSON, BRUCE S	THE 1982 BIOPOLYMERS GORDON CONFERENCE								
CHEMISTRY	BBCB		06-01-82 05-31-83	0	22500	1	R13 GM 30508-01	2,000	82
ROEDER, ROBERT G	1982 GORDON RESEARCH CONFERENCE ON NUCLEIC ACIDS								
BIOLOGY	MGN		06-10-82 05-31-83	0	21600	1	R13 GM 31095-01	2,000	82
SILVERSTEIN, SAMUEL C	LYSOSOMES IN THE REGULATION OF CYTOPLASMIC FUNCTION								
PHYSIOLOGY & IMMUNOLOGY	CBY		06-23-82 05-31-83	0	22300	1	R13 GM 30792-01	3,000	82
** 5 TOTAL								11,000	
KINGSTON	UNIVERSITY OF RHODE ISLAND								
GOLDSMITH, MARIAN R	ORGANIZATION AND EXPRESSION OF A MULTIGENE FAMILY								
ZOOLOGY	GEN		09-01-81 08-31-83	0	21600	5	R01 GM 29252-02	74,390	81
SHIMIZU, YUZURU	DELETERIOUS MICROALGAL TOXINS								
PHARMACOG/ENVIRONMTL HLTH SCIS	MCHA		09-01-82 08-31-83	0	11910	5	R01 GM 28754-09	82,260	82
SHIMIZU, YUZURU	BIOSYNTHESIS OF MARINE NATURAL PRODUCTS								
PHARMACOG/ENVIRONMTL HLTH SCIS	BNP		07-01-82 06-30-83	2	11910	2	R01 GM 24425-04	75,048	82
VAN HOLDE, KENSAL E	GORDON RESEARCH CONFERENCE ON NUCLEOPROTEINS & CHROMATIN								
BIOCHEMISTRY AND BIOPHYSICS	SSS		05-15-82 04-30-83	0	21600	1	R13 GM 30433-01	3,000	82
** 4 TOTAL								234,698	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
RHODE ISLAND									
PROVIDENCE	BROWN UNIVERSITY								
CANE, DAVID E / CHEMISTRY	BIOSYNTHESIS OF ANTIBIOTIC NATURAL PRODUCTS / BNP		08-01-82 07-31-83	0	11910	5	R01 GM 22172-08	109,405	82
CANE, DAVID E / CHEMISTRY	STEREOCHEMICAL STUDIES OF ISOPRENOID BIOSYNTHESIS / MCHA		01-01-82 12-31-82	2	11920	1	R01 GM 30301-01	99,282	82
DAHLBERG, ALBERT E / PHYSIOLOGICAL CHEMISTRY	POLYSOMES & SUBUNITS: STRUCTURE-FUNCTION RELATIONSHIPS / PC		09-01-82 08-31-83	0	21320	5	R01 GM 19756-11	143,631	82
DEGNAN, KEVIN J / PHYSIOLOGY AND BIOPHYSICS	PHYSIOLOGY OF CHLORIDE SECRETION / PHY		07-01-82 06-30-83	2	22300	1	R01 GM 31074-01	101,356	82
GERBI, SUSAN A / DEVELOPMENTAL BIOLOGY	FINE STRUCTURE OF RIBOSOMAL RNA / MBY		04-01-82 03-31-83	4	21320	2	R01 GM 20261-09	138,784	82
KIDWELL, MARGARET G / POPULATION BIOLOGY & GENETICS	GENETIC ASPECTS OF HYBRID DYSGENESIS IN DROSOPHILA / GEN		12-01-81 11-30-82	2	21700	2	R01 GM 25399-04	97,435	82
LANDY, ARTHUR / MICROBIOLOGY & MOLECULAR BIOL	CONTROL OF SYNTHESIS AND FUNCTION OF NUCLEIC ACID / MBC		06-01-82 05-31-83	2	21750	5	R01 GM 27861-14	126,690	82
MILLER, KENNETH R / CELL BIOLOGY AND CYTOLOGY	THE STRUCTURE OF THE PHOTOSYNTHETIC MEMBRANE / CTY		09-01-81 02-28-83	0	22450	5	R01 GM 28799-02	66,345	81
MILLER, KENNETH R / CELL BIOLOGY AND CYTOLOGY	THE STRUCTURE OF THE PHOTOSYNTHETIC MEMBRANE / CTY		09-01-82 02-28-83	0	22450	3	R01 GM 28799-02S1	34,399	82
** 8 TOTAL								917,327	
PROVIDENCE	RHODE ISLAND COLLEGE								
MATSUMOTO, LLOYD H / BIOLOGY	THE REPLICATION OF BOVINE SATELLITE DNA / MBY		09-01-82 08-31-83	2	21200	1	R01 GM 31964-01	93,638	82
** 1 TOTAL								93,638	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
RHODE ISLAND									
PROVIDENCE	RHODE ISLAND HOSPITAL								
GANN, DONALD S	HORMONAL AND CARDIOVASCULAR RESPONSE TO TRAUMA								
SURGERY	SAT		07-01-82 06-30-83	4	13420	2	R01 GM 27946-03	201,971	82
** 1 TOTAL								201,971	
*** 0 *CENTERS								0	
*** 19 NONCENTER								1,458,634	
*** 19 TOTAL								1,458,634	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
SOUTH CAROLINA										
CHARLESTON	MEDICAL UNIVERSITY OF SOUTH CAROLINA									
CHAO, LEE	RNA POLYMERASE MEDIATED MUTAGENESIS AND DNA REPAIR									
BIOCHEMISTRY	MG		09-01-82 08-31-83	2	21250	2	R01 GM	26689-04	71,710	82
COOK, JAMES A	ROLE OF THROMBOXANE AND PROSTAGLANDINS IN SHOCK									
PHYSIOLOGY	SAT		04-01-82 03-31-83	0	13410	5	R01 GM	27673-03	54,048	82
GAFFNEY, THOMAS E	INTERDISCIPLINARY PROGRAM IN PHARMACOLOGY/TOXICOLOGY									
PHARMACOLOGY	PTR		02-01-82 01-31-83	0	11300	*5	P50 GM	20387-10	553,453	82
JOLLOW, DAVID J	ACETAMINOPHEN TOXICITY: EFFECTS OF DIABETES AND DIET									
PHARMACOLOGY	PHRA		05-01-82 04-30-83	2	11880	1	R01 GM	30546-01	83,289	82
JOLLOW, DAVID J	ACETAMINOPHEN-INDUCED LIVER NECROSIS									
PHARMACOLOGY	PHRA		12-01-80 11-30-82	0	11890	5	R01 GM	25781-03	117,031	81
KARAM, JIM D	GENETIC CONTROL OF PHAGE T4 DNA REPLICATION									
BIOCHEMISTRY	EVR		04-01-82 03-31-83	1	21200	5	R01 GM	18842-10	67,587	82
** 6 TOTAL									947,118	
CLEMSON	CLEMSON UNIVERSITY									
ABRAMOVITCH, RUDOLPH A	BIOLOGICALLY ACTIVE COMPOUNDS FROM N-OXIDES AND YLIDES									
CHEMISTRY AND GEOLOGY	MCHA		04-01-81 12-31-82	0	11930	5	R01 GM	25242-04	97,919	81
YARDLEY, DARRELL G	THE AMYLASE SYSTEM OF DROSOPHILA PSEUDOOBSCURA									
ZOOLOGY	GEN		04-01-82 03-31-83	0	21800	5	R01 GM	27915-03	47,570	82
** 2 TOTAL									145,489	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
SOUTH CAROLINA									
COLUMBIA	UNIVERSITY OF SOUTH CAROLINA AT COLUMBIA								
ALLEN, DONALD O	BIOCHEMISTRY OF INHERITED VARIATIONS IN DRUG RESPONSE								
PHARMACOLOGY	MET		07-01-81 06-30-83	0	21400	5	R01 GM 26153-04	56,800	81
AMMA, ELMER L	113CD NMR AND CRYSTALLOGRAPHY OF ZN2+, CA2+ ENZYMES								
CHEMISTRY	BMT		02-01-82 01-31-83	1	22500	5	R01 GM 27721-02	52,606	82
BURKE, STEVEN D	ANTIBIOTIC, PROSTANOID, AND STEROID TOTAL SYNTHESIS								
CHEMISTRY	MCHA		07-01-82 06-30-83	0	11910	5	R01 GM 28321-03	65,198	82
DAWSON, JOHN H	SPECTROSCOPY AND MECHANISMS OF HEME IRON OXYGENASE								
CHEMISTRY	BMT		07-01-81 06-30-83	0	22400	5	R01 GM 26730-03	51,589	81
ELLIS, PAUL D	113CD AND 77SE NMR OF SYSTEMS OF BIOLOGICAL INTEREST								
CHEMISTRY	BMT		04-01-81 11-30-82	0	11920	5	R01 GM 26295-03	61,780	81
FISHER, RONALD R	MITOCHONDRIAL PYRIDINE DINUCLEOTIDE TRANSHYDROGENASE								
CHEMISTRY	PB		08-01-82 07-31-83	3	22450	5	R01 GM 22070-08	118,091	82
LAWTHER, ROBERT P	REGULATION OF THE ILVGEDA OPERON BY ATTENUATION								
BIOLOGY	MG		07-01-82 06-30-83	0	21600	5	R01 GM 28021-03	80,817	82
MARSHALL, JAMES A	SYNTHESIS OF TUMOR INHIBITORY COMPOUNDS								
CHEMISTRY	MCHA		09-01-82 08-31-83	1	11910	5	R01 GM 29475-03	93,091	82
MISHRA, NAWIN C	CHARACTERIZATION OF MAMMALIAN DNA POLYMERASE MUTANTS								
BIOLOGY	MGN		09-01-82 08-31-83	0	21200	5	R01 GM 29216-03	69,597	82
MORGAN, STEPHEN L	PYROLYSIS GC-MS OF BIOMEDICALLY IMPORTANT COMPOUNDS								
CHEMISTRY	SSS		08-01-82 07-31-83	0	11940	5	R01 GM 27135-03	45,296	82
STALLCUP, MICHAEL R	STEROID HORMONE ACTION: MOLECULAR AND GENETIC STUDIES								
BIOLOGY	MBY		07-01-82 06-30-83	0	21750	5	R01 GM 28298-03	74,777	82
** 11 TOTAL								769,642	
*** 1 *CENTERS								54,048	
*** 18 NONCENTER								1,808,201	
*** 19 TOTAL								1,862,249	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
SOUTH DAKOTA							
VERMILLION	UNIVERSITY OF SOUTH DAKOTA						
SMALL, GARY D DIV/BIOCHEM, PHYSIOL AND PHARM	DNA METABOLISM IN EUKARYOTES PC 07-01-82 06-30-83	0	21250	5	R01 GM 21095-08	41,254	82
** 1 TOTAL						41,254	
*** 0 *CENTERS						0	
*** 1 NONCENTER						41,254	
*** 1 TOTAL						41,254	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TENNESSEE									
JOHNSON CITY	EAST TENNESSEE STATE UNIVERSITY								
MUSICH, PHILLIP R BIOCHEMISTRY	SPECIFIC DNA-PROTEIN COMPLEXES IN GENOME ORGANIZATION MBY		05-01-82 04-30-83	2	21600	1	R01 GM 30600-01	84,406	82
** 1 TOTAL								84,406	
KNOXVILLE	UNIVERSITY OF TENNESSEE KNOXVILLE								
ASHLEY, TERRY F ZOOLOGY	INVESTIGATION OF CHROMOSOMAL ORGANIZATION IN NUCLEI GEN		04-01-82 03-31-83	0	21600	5	R01 GM 28579-03	74,465	82
BECKER, JEFFREY M MICROBIOLOGY	PEPTIDE-CELL INTERACTIONS IN SACCHAROMYCES CEREVISIAE PB		05-01-82 04-30-83	1	22300	5	R01 GM 22087-08	70,607	82
BUNICK, GERALD J NONE	STRUCTURAL STUDIES OF NUCLEOSOMES BBCA		01-01-82 12-31-82	2	21600	1	R01 GM 29818-01	88,109	82
CHURCHICH, JORGE E BIOCHEMISTRY	BRAIN PYRIDOXAL KINASE AND P-PYRIDOXINE OXIDASE PB		07-01-82 06-30-83	0	22400	5	R01 GM 27639-03	50,606	82
FREIRE, ERNESTO BIOCHEMISTRY	STATISTICAL THERMODYNAMIC STUDIES OF MEMBRANES BBCB		01-01-82 12-31-82	0	22300	7	R01 GM 30819-01	35,620	82
OLINS, ADA L NONE	CHROMATIN STRUCTURE CTY		09-01-82 08-31-83	2	21600	1	R01 GM 29429-01	85,197	82
OLINS, DONALD E NONE	PHYSICAL PROPERTIES OF ISOLATED NUCLEI AND CHROMOSOMES BBCA		09-01-82 08-31-83	4	21600	2	R01 GM 19334-11	104,076	82
VAN HOOK, WILLIAM A CHEMISTRY	GAS-SOLUTION CALORIMETRY-SOLVENT ISOTOPE EFFECTS BBCB		09-01-81 01-31-83	0	22500	5	R01 GM 19991-09	53,900	81
** 8 TOTAL								562,580	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TENNESSEE									
MEMPHIS	MEMPHIS STATE UNIVERSITY								
BRADY, DONALD R NONE	SOURCE OF REDUCING EQUIVALENTS FOR OXIDATION OF STEROLS PB		09-01-82 08-31-83	0	22400	5	R01 GM 28345-03	32,348	82
** 1 TOTAL								32,348	
MEMPHIS	ST. JUDE CHILDREN'S RESEARCH HOSPITAL								
BLAKLEY, RAYMOND DIV OF BIOCHEMICAL & CLIN PHAR	ALLOSTERIC REGULATION OF MONOMERIC ENZYMES BIO		09-01-82 08-31-83	1	22400	5	R01 GM 30432-02	95,566	82
CHEUNG, WAI YIU BIOCHEMISTRY	THE ROLE OF CALMODULIN IN PROSTAGLANDIN METABOLISM BIO		09-01-82 08-31-83	1	22400	5	R01 GM 28178-02	79,791	82
GOORHA, RAKESH M DIVISION OF VIROLOGY	DNA REPLICATION OF FROG VIRUS 3 VR		07-01-82 06-30-83	0	21200	5	R01 GM 23638-06	91,209	82
ROCK, CHARLES O BIOCHEMISTRY	REGULATORY SITES IN MEMBRANE LIPID BIOSYNTHESIS MG		04-01-82 03-31-83	1	22300	5	R01 GM 29053-02	89,408	82
ROCK, CHARLES O BIOCHEMISTRY	REGULATION OF MEMBRANE PHOSPHOLIPID STRUCTURE MBC		07-01-82 06-30-83	0	22300	5	R01 GM 28035-03	66,790	82
** 5 TOTAL								422,764	
MEMPHIS	UNIVERSITY OF TENN CENTER HEALTH SCIEN								
DESIDERIO, DOMINIC M NEUROLOGY	COLLISION ACTIVATION-FD MASS SPECTROMETRY OF PEPTIDES SSS		02-01-82 01-31-83	1	22500	5	R01 GM 28611-02	41,916	82
DESIDERIO, DOMINIC M NEUROLOGY	MASS SPECTROMETRY OF BIOLOGICALLY IMPORTANT PEPTIDES BMT		09-22-82 08-31-83	2	11440	2	R01 GM 26666-04	141,481	82
** 2 TOTAL								183,397	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
TENNESSEE							
NASHVILLE	MEHARRY MEDICAL COLLEGE						
HODO, HENRY G, III	RNA POLYMERASE 2--STRUCTURE & CHEMICAL MODIFICATION						
GENETICS & MOLECULAR MEDICINE	BIO	08-01-82 07-31-83	0	21310	5 R01 GM 27785-03	49,728	82
JACKSON, JULIUS H	CONTROL OF RELATED DISPERSED GENES AND GENE PRODUCTS						
MICROBIOLOGY	MG	12-01-81 11-30-82	2	21750	2 R01 GM 25605-04	78,514	82
** 2 TOTAL						128,242	
NASHVILLE	VANDERBILT UNIVERSITY						
BIRD, ROBERT E	CONTROL OF PLASMID DNA REPLICATION IN E COLI						
MOLECULAR BIOLOGY	MG	08-01-82 07-31-83	3	21200	5 R01 GM 25526-05	93,543	82
COLOWICK, SIDNEY P	ENZYMATIC OXIDATION AND PHOSPHORYLATION						
MICROBIOLOGY	BIO	12-01-81 11-30-82	1	22400	5 R01 GM 20656-24	147,406	82
GARBERS, DAVID L	GUANYLATE CYCLASE: LARGE SCALE PURIFICATION						
PHARMACOLOGY	BIO	01-01-82 12-31-82	0	22400	5 R01 GM 24290-05	102,630	82
HARALSON, MICHAEL A	THE BIOSYNTHESIS AND REGULATION OF TYPE V PROCOLLAGEN						
PATHOLOGY	PBC	08-01-82 07-31-83	3	21750	1 R01 GM 31178-01	93,987	82
HARDMAN, JOEL G	ROLE OF CYCLIC GMP: CONTROL OF CYCLIC GMP METABOLISM						
PHARMACOLOGY	MET	01-01-82 12-31-82	2	11770	5 R01 GM 16811-13	151,133	82
HARRIS, THOMAS M	VANCOMYCIN, RISTOCETIN AND RELATED ANTIBIOTICS						
CHEMISTRY	MCHA	07-01-82 06-30-83	1	11910	5 R01 GM 23593-06	99,089	82
HARRIS, THOMAS M	TETRACYCLINES AND RELATED PHENOLIC NATURAL PRODUCTS						
CHEMISTRY	BNP	01-01-82 12-31-82	3	11910	2 R01 GM 12848-17	87,463	82
HOLADAY, DUNCAN A	METABOLISM OF VOLATILE FLUORINATED ANESTHETICS						
ANESTHESIOLOGY	SAT	06-01-81 02-28-83	0	13200	5 R01 GM 29250-02	97,599	81
MC KANNA, JAMES A	E.M. STUDIES OF CELLS AND EPIDERMAL GROWTH FACTOR						
ANATOMY	CP	07-01-82 06-30-83	0	22200	5 R01 GM 27153-03	107,471	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TENNESSEE									
NASHVILLE	VANDERBILT UNIVERSITY								
MOSIG, GISELA MOLECULAR BIOLOGY	DNA REPLICATION AND RECOMBINATION IN BACTERIOPHAGE GEN		09-01-82 08-31-83	0	21200	5	R01 GM 13221-18	148,537	82
OATES, JOHN A PHARMACOLOGY	RESEARCH CENTER FOR PHARMACOLOGY AND DRUG TOXICOLOGY SSS		12-01-81 11-30-82	0	11300	*5	P50 GM 15431-15	1,517,625	82
PAGE, TERRY L GENERAL BIOLOGY	PHYSIOLOGICAL BASIS OF CIRCADIAN ORGANIZATION BPO		12-01-81 11-30-82	2	13700	1	R01 GM 30039-01	43,240	82
PARK, JANE H PHYSIOLOGY	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE BIO		04-01-82 03-31-83	2	22400	5	R01 GM 07884-21	97,685	82
POLAVARAPU, PRASAD L CHEMISTRY	VIBRATIONAL CIRCULAR DICHROISM STUDIES BBCA		02-01-82 01-31-83	2	22500	1	R01 GM 29375-01	95,503	82
REED, PETER W PHARMACOLOGY	ROLE OF CALCIUM IN STIMULUS-ACTIVATION OF NEUTROPHILS BIO		06-01-82 05-31-83	2	22200	1	R01 GM 29756-01	71,085	82
TOUSTER, OSCAR MOLECULAR BIOLOGY	BIOCHEMICAL STUDIES ON LYSOSOMES AND RELATED ENZYMES CBY		07-01-82 06-30-83	2	22400	5	R01 GM 26430-18	115,840	82
WATTERSON, DANIEL M PHARMACOLOGY	MOLECULAR BASIS OF CALCIUM ACTION IN CELL PROCESSES CP		04-01-82 03-31-83	2	22200	1	R01 GM 30861-01	83,121	82
WATTERSON, DANIEL M PHARMACOLOGY	CA2+ DEPENDENT PROTEIN PHOSPHORYLATION: MOLECULAR BASIS BIO		09-15-82 08-31-83	2	22400	1	R01 GM 30953-01	90,204	82
WELLS, JACK N PHARMACOLOGY	TISSUE SPECIFIC INHIBITORS OF PHOSPHODIESTERASE PC		04-01-82 03-31-83	4	11870	2	R01 GM 21220-06A1	94,052	82
WILLIAMS, ROBLEY C, JR MOLECULAR BIOLOGY	BIOCHEMICAL INVESTIGATION OF NEUROFILAMENTS BBCB		04-01-82 03-31-83	1	22250	5	R01 GM 29834-02	50,561	82
WILLIAMS, ROBLEY C, JR MOLECULAR BIOLOGY	ASSEMBLY AND DISASSEMBLY OF CYTOPLASMIC MICROTUBULES BBCB		07-01-82 06-30-83	3	22250	5	R01 GM 25638-05	114,149	82
** 21 TOTAL								3,501,923	

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TENNESSEE									
OAK RIDGE	OAK RIDGE NATIONAL LABORATORY								
MASKER, WARREN E	THE FIDELITY OF IN VITRO DNA REPAIR AND REPLICATION								
BIOLOGY	MG		09-01-82 08-31-83	0	21200	5	R01 GM 28113-03	57,112	82
** 1 TOTAL								57,112	
*** 1 *CENTERS								148,537	
*** 40 NONCENTER								4,824,235	
*** 41 TOTAL								4,972,772	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
AUSTIN	UNIVERSITY OF TEXAS AUSTIN								
BLOCH, DAVID P CELL RESEARCH INSTITUTE	FLOW-CYTOMETRIC STUDIES OF CHROMATIN CP		03-01-82 02-28-83	1	21100	5	R01 GM 23331-04	56,958	82
FREEMAN, GARY L ZOOLOGY	THE BASIS FOR AND ROLE OF SYMMETRY DURING EMBRYOGENESIS CBY		07-01-82 06-30-83	2	22200	2	R01 GM 20024-09	71,943	82
GIBSON, DAVID T MICROBIOLOGY	MECHANISMS OF ENZYMATIC OXYGEN FIXATION MBC		12-01-81 11-30-82	4	22400	1	R01 GM 29909-01	114,323	82
GILBERT, JOHN C CHEMISTRY	DEVELOPMENT OF A BIOMIMETIC APPROACH TO TRICHOTHECENES MCHA		08-01-82 07-31-83	2	11910	1	R01 GM 29972-01A1	78,697	82
HACKERT, MARVIN L CHEMISTRY	STRUCTURE AND FUNCTION OF HISTIDINE DECARBOXYLASE BBCB		02-01-82 01-31-83	2	22550	1	R01 GM 30105-01	67,105	82
HACKERT, MARVIN L CHEMISTRY	STRUCTURE AND FUNCTION OF SUPRA-MOLECULAR ASSEMBLAGES BBCB		07-01-82 06-30-83	0	22550	5	R01 GM 23306-07	45,348	82
HIRAIZUMI, YUICHIRO ZOOLOGY	MALE RECOMBINATION-MUTATOR SYSTEM IN DROSOPHILA GEN		04-01-82 03-31-83	2	21800	2	R01 GM 19770-10	120,453	82
JEFFERY, WILLIAM R ZOOLOGY	STRUCTURE AND FUNCTION OF MESSENGER RIBONUCLEOPROTEIN MBY		08-01-82 07-31-83	4	21320	2	R01 GM 25119-06	106,249	82
MAGUIRE, MARJORIE P ZOOLOGY	CHROMOSOME STRUCTURES AND MEIOTIC MECHANISMS GEN		02-01-82 01-31-83	2	21600	2	R01 GM 19582-10	21,245	82
MOLINEUX, IAN J MICROBIOLOGY	STUDIES OF DNA-BINDING PROTEINS AND T7 DNA SYNTHESIS MBC		04-01-81 03-31-83	0	21200	5	R01 GM 26183-03	68,980	81
POWERS, EDWARD L ZOOLOGY	PHYSICO-CHEMICAL STUDIES OF RADIATION EFFECTS IN CELLS RAD		04-01-82 03-31-83	3	21250	5	R01 GM 13557-16	114,148	82
RAVEL, JOANNE M CHEMISTRY	FACTORS CONTROLLING PROTEIN SYNTHESIS MBY		04-01-82 03-31-83	3	21320	5	R01 GM 18775-11	86,344	82
REED, LESTER J CHEMISTRY	BIOCHEMISTRY OF ALPHA-KETO ACID DEHYDROGENASE COMPLEXES BIO		08-01-82 07-31-83	2	22400	5	R01 GM 06590-24	141,192	82
RIGGS, AUSTEN F, II ZOOLOGY	STRUCTURE OF HEMOCYANIN PB		01-01-82 12-31-82	3	22500	5	R01 GM 28410-02	68,121	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
AUSTIN	UNIVERSITY OF TEXAS AUSTIN								
RIGGS, AUSTEN F, II	STRUCTURAL BIOCHEMISTRY OF HEMOGLOBINS AND HEMOCYANINS								
ZOOLOGY	PBC		07-01-82 06-30-83	1	22500	5	R01 GM 21314-07	73,278	82
ROBERTUS, JON D	STRUCTURAL ANALYSIS OF THE ANTI-TUMOR PROTEIN RICIN								
CHEMISTRY	BBCB		03-01-82 02-28-83	2	22550	9	R01 GM 30048-04	67,802	82
RODGERS, MICHAEL A	SINGLET OXYGEN IN BIOLOGICAL ENVIRONMENTS								
CTR FOR FAST KINETICS RESEARCH	CPA		01-01-82 12-31-82	2	11920	2	R01 GM 24235-04	99,336	82
ROSSKY, PETER J	IONIC DISTRIBUTIONS IN POLYNUCLEOTIDE SOLUTIONS								
CHEMISTRY	BBCA		05-01-82 04-30-83	2	21100	1	R01 GM 30452-01	50,656	82
STARCHER, BARRY C	ELASTIN TURNOVER								
HOME ECONOMICS	PBC		05-01-82 04-30-83	2	22400	1	R01 GM 30416-01	81,904	82
TABITA, FRED R	FUNCTION AND ASSEMBLY OF CO2 ASSIMILATORY ENZYMES								
MICROBIOLOGY	BIO		01-01-82 12-31-82	4	22400	2	R01 GM 24497-05	92,529	82
WHITESELL, JAMES K	THE TOTAL SYNTHESIS OF SARRACENIN								
CHEMISTRY	MCHA		04-01-82 03-31-83	1	11910	5	R01 GM 29195-05	62,392	82
** 21 TOTAL								1,689,003	
COLLEGE STATION	TEXAS AGRI AND MECH UNIV COLLEGE STATION								
BERGBREITER, DAVID E	ELECTROPHILIC ASYMMETRIC SYNTHESIS								
CHEMISTRY	MCHA		04-01-81 09-30-82	0	11940	5	R01 GM 26268-03	60,386	81
CHUNG, SUNG-KEE	PROBES OF NAD-DEPENDENT DEHYDROGENASE REACTION								
CHEMISTRY	BMT		08-01-81 10-31-82	0	11920	5	R01 GM 25288-02	28,793	81
COTTON, F ALBERT	STRUCTURE/FUNCTION STUDIES ON PROTEINS AND ENZYMES								
CHEMISTRY	BBCB		08-01-82 07-31-83	0	22550	5	R01 GM 19455-11	86,224	82
CRIPPEN, GORDON M	CONFORMATIONAL ANALYSIS BY ENERGY EMBEDDING								
CHEMISTRY	BBCA		05-01-82 04-30-83	2	22500	1	R01 GM 30561-01	53,213	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
COLLEGE STATION			TEXAS AGRI AND MECH UNIV COLLEGE STATION						
GREENBAUM, IRA F BIOLOGY	MGN		CHROMOSOMAL REARRANGEMENT INCORPORATION IN MAMMALS 03-01-82 02-28-83	0	21800	5	R01 GM 27014-03	58,480	82
HARDING, KENN E CHEMISTRY	MCHA		SPIROCYCLIC SYSTEM SYNTHESIS--PI CATIONIC CYCLIZATION 04-01-81 09-30-82	0	11940	5	R01 GM 26265-03	51,024	81
IHLER, GARRET M MEDICAL BIOCHEMISTRY	MBC		MECHANISM OF DNA REPLICATION OF PHAGE LAMBDA 04-01-82 03-31-83	0	21200	5	R01 GM 27727-03	42,823	82
JOHNSON, JAMES R BIOLOGY	MG		REGULATION OF METHIONINE BIOSYNTHESIS IN E. COLI K12 07-01-82 06-30-83	0	21750	5	R01 GM 28214-03	54,213	82
LOHMAN, TIMOTHY M BIOCHEMISTRY AND BIOPHYSICS	BBCA		DNA UNWINDING: THE ROLE OF E. COLI REP AND SSB PROTEINS 05-01-82 04-30-83	2	21200	1	R01 GM 30498-01	79,106	82
LUEKING, DONALD R BIOLOGY	MBC		THE REGULATION OF PROCARYOTIC PHOSPHOLIPID SYNTHESIS 08-01-82 07-31-83	0	22300	5	R01 GM 28036-03	39,497	82
MACFARLANE, RONALD D CHEMISTRY	BMT		BIOMEDICAL USE OF PLASMA DESORPTION MASS SPECTROMETRY 07-01-82 06-30-83	2	12840	2	R01 GM 26096-05	145,748	82
PETTIGREW, DONALD W BIOCHEMISTRY AND BIOPHYSICS	PB		ASSEMBLY AND CATALYSIS IN REGULATORY ENZYMES 09-15-82 08-31-83	2	22400	1	R01 GM 30911-01	64,512	82
SCOTT, A IAN CHEMISTRY	BNP		ANTITUMOR ALKALOIDS BIOSYNTHESIS AND BIOGENETIC SYNTHESI 06-01-82 03-31-83	3	11910	7	R01 GM 31600-01	63,358	82
VONDER HAAR, RAYMOND A MEDICAL BIOCHEMISTRY	MGN		FRAMESHIFT MUTANTS AND SUPPRESSORS IN MAMMALIAN CELLS 01-01-82 12-31-82	0	21480	5	R01 GM 27115-03	29,789	82
WILD, JAMES R BIOCHEMISTRY AND BIOPHYSICS	MG		ORGANIZATION AND REGULATION OF THE ATCASE CISTRONS 06-01-82 05-31-83	1	21750	5	R01 GM 29152-02	47,626	82
YOUNG, RYLAND F MEDICAL BIOCHEMISTRY	EVR		CONTROL OF VIRUS-INDUCED CELL LYSIS 01-01-82 12-31-82	0	21280	5	R01 GM 27099-03	60,540	82
** 16 TOTAL								965,332	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
DALLAS	UNIVERSITY OF TEXAS HLTH SCI CTR DALLAS								
BAXTER, CHARLES R	COMPOSITE GRAFTS IN THE TREATMENT OF THERMAL INJURY								
SURGERY	SAT		05-01-82 04-30-83	2	13420	1	R01 GM 30407-01	132,793	82
BAXTER, CHARLES R	CIRUCLATORY AND FLUID VOLUME CHANGES IN BURNS								
SURGERY	SGYB		12-01-81 11-30-82	1	13300	*5	P50 GM 21681-18	245,538	82
BAXTER, CHARLES R	LEUKOCYTE FUNCTION IN BURN AND TRAUMA PATIENTS								
SURGERY	SSS		04-01-81 11-30-82	0	13410	5	R01 GM 25504-03	101,569	81
BUTOW, RONALD A	REGULATION OF MITOCHONDRIAL BIOGENESIS IN YEAST								
BIOCHEMISTRY	MBY		05-01-82 04-30-83	1	21280	5	R01 GM 22525-07	74,750	82
ESTABROOK, RONALD W	HEPATIC MICROSOMAL DRUG OXIDATION								
BIOCHEMISTRY	PTR		09-01-82 08-31-83	0	11360	5	R01 GM 16488-15	161,515	82
FINKELSTEIN, DAVID B	COORDINATION OF PERIODIC GENE EXPRESSION IN YEAST								
BIOCHEMISTRY	MBY		09-01-82 08-31-83	2	21750	2	R01 GM 25829-04A1	79,986	82
GARRARD, WILLIAM T	FUNCTION OF THE SUBUNITS OF EUKARYOTIC CHROMOSOMES								
BIOCHEMISTRY	CTY		02-01-82 01-31-83	2	21600	1	R01 GM 29935-01	113,840	82
GARRARD, WILLIAM T	STRUCTURE OF THE SUBUNITS OF EUKARYOTIC CHROMOSOMES								
BIOCHEMISTRY	CTY		05-01-82 04-30-83	0	21600	5	R01 GM 22201-08	75,283	82
MARTIN, NANCY C	TRANSCRIPTION AND ORGANIZATION OF MITOCHONDRIAL GENES								
BIOCHEMISTRY	GEN		06-01-82 05-31-83	4	21280	2	R01 GM 27597-04	118,409	82
MORRISON, MARCELLE R	MESSENGER RNA STRUCTURE, METABOLISM AND FUNCTION								
NEUROLOGY	PC		01-01-82 12-31-82	0	21320	5	R01 GM 27214-03	55,471	82
PETERSON, JULIAN A	REGULATION OF MICROBIAL OXIDATION REACTIONS								
BIOCHEMISTRY	BIO		05-01-82 04-30-83	2	11860	5	R01 GM 19036-14	69,934	82
ROSS, ELLIOTT M	EFFECT OF MEMBRANE STRUCTURE ON ADENYLATE CYCLASE								
PHARMACOLOGY	MBY		08-01-82 07-31-83	4	11770	2	R01 GM 30355-02	118,728	82
SHAY, JERRY W	TUBULIN AND THE REGULATION OF STEROID BIOGENESIS								
CELL BIOLOGY	CBY		09-01-82 08-31-83	0	22250	5	R01 GM 29261-03	43,283	82
SNELL, WILLIAM J	CELL SURFACE RECOGNITION AND CELL INTERACTIONS								
CELL BIOLOGY	CBY		07-01-82 06-30-83	2	22300	5	R01 GM 25661-05	74,897	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
DALLAS	UNIVERSITY OF TEXAS HLTH SCI CTR DALLAS								
WATERMAN, MICHAEL R BIOCHEMISTRY	MOLECULAR BASIS OF CYTOCHROME P-450 INDUCTION BIO		04-01-82 03-31-83	0	11760	5 R01 GM	27151-03	20,950	82
WILSON, CAROL M PHARMACOLOGY	THE GENETIC CONTROL OF RENIN ACTIVITY MGN		04-01-82 03-31-83	2	11780	2 R01 GM	26414-04	101,404	82
** 16 TOTAL								1,588,350	
DALLAS	WADLEY INSTITUTES OF MOLECULAR MEDICINE								
BOLLON, ARTHUR P MOLEC GENETICS/GENETIC ENGY	ANALYSIS OF YEAST NUCLEAR GENES GEN		07-01-82 06-30-83	0	21600	5 R01 GM	28090-03	67,946	82
** 1 TOTAL								67,946	
FORT WORTH	TEXAS COLLEGE OF OSTEOPATHIC MEDICINE								
COOK, PAUL F BIOCHEMISTRY	KINETIC AND CHEMICAL MECHANISMS OF ENZYMES PB		08-01-82 06-30-83	2	22400	7 R01 GM	31686-01	39,075	82
** 1 TOTAL								39,075	
GALVESTON	UNIVERSITY OF TEXAS MED BR GALVESTON								
CHAN, TEH-SHENG MICROBIOLOGY	MOLECULAR PATHOLOGY OF INHERITED IMMUNODEFICIENCY PTHA		02-01-82 01-31-83	1	22100	5 R01 GM	27589-02	63,204	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
GALVESTON	UNIVERSITY OF TEXAS MED BR GALVESTON								
CHAN, TEH-SHENG	SOMATIC CELL HYBRIDS FOR STUDIES OF HUMAN DISEASES								
MICROBIOLOGY	MGN		12-01-81 11-30-82	1	21480	5	R01 GM 26522-04	81,290	82
CZERWINSKI, EDMUND W	STRUCTURAL STUDIES OF ISOCITRATE DEHYDROGENASE								
HUMAN BIOL CHEM AND GENETICS	BBCA		01-01-82 12-31-82	0	22550	5	R01 GM 27024-03	55,083	82
KUROSKY, ALEXANDER	HUMAN FIBRONECTIN: STRUCTURE AND FUNCTION								
HUMAN BIOL CHEM AND GENETICS	PBC		04-01-82 03-31-83	3	22500	5	R01 GM 29039-02	90,330	82
POLLARD, RICHARD B	HERPESVIRUSES AND IMMUNITY IN BURNED CHILDREN								
INTERNAL MEDICINE	VR		01-01-82 12-31-82	0	13450	5	R23 GM 27098-03	46,880	82
PRIANO, LAWRENCE L	ACTION OF I V ANESTHETICS ON REGIONAL BLOOD FLOWS								
ANESTHESIOLOGY	SAT		01-01-82 12-31-82	0	13250	5	R23 GM 27172-03	32,738	82
SZABO, GABOR	STRUCTURE-FUNCTION RELATIONSHIPS FOR GATABLE CHANNELS								
PHYSIOLOGY AND BIOPHYSICS	BBCB		08-01-81 07-31-83	0	22300	5	R01 GM 26897-03	46,587	81
WALDBILLIG, RONALD C	MEMBRANE SOLUBILITY OF ANESTHETICS IN BILAYER NERVE								
PHYSIOLOGY AND BIOPHYSICS	BBCB		12-01-81 11-30-82	0	22300	5	R01 GM 26980-03	83,080	82
WEIGEL, PAUL H	CELL RECOGNITION AND RESPONSES TO EXTERNAL CARBOHYDRATES								
HUMAN BIOL CHEM AND GENETICS	CBY		12-01-81 11-30-82	0	22200	5	R01 GM 26228-03	60,631	82
WEIGEL, PAUL H	ENDOCYTOSIS AND RECYCLING OF THE GALACTOSYL RECEPTOR								
HUMAN BIOL CHEM AND GENETICS	CP		02-01-82 01-31-83	2	22300	1	R01 GM 30218-01	79,089	82
** 10 TOTAL								638,912	
HOUSTON	BAYLOR COLLEGE OF MEDICINE								
BEATTIE, KENNETH L	THE ENZYMOLOGY OF MUTAGENESIS								
BIOCHEMISTRY	MG		05-01-82 04-30-83	4	21250	1	R01 GM 30590-01	81,535	82
BEATTIE, KENNETH L	A BIOCHEMICAL STUDY OF ERROR-PRONE DNA SYNTHESIS								
BIOCHEMISTRY	MG		07-01-82 06-30-83	2	21200	2	R01 GM 25530-04A1	118,691	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS							
HOUSTON	BAYLOR COLLEGE OF MEDICINE						
BEAUDET, ARTHUR L PEDIATRICS	REGULATION OF ARGININOSUCCINATE SYNTHETASE MGN	04-01-82 03-31-83	1	21750	5 R01 GM 27593-02	105,123	82
BRYAN, JOSEPH CELL BIOLOGY	CHEMISTRY AND LOCALIZATION OF ACTIN GELLING PROTEINS CBY	12-01-81 11-30-82	4	22250	2 R01 GM 26091-04	128,604	82
CASKEY, CHARLES T MEDICINE	MAMMALIAN CELL PROTEIN SYNTHESIS MUTANTS MBY	01-01-82 12-31-82	0	21320	5 R01 GM 27235-03	81,652	82
CHINAULT, ALAN C MEDICINE	MOLECULAR ORGANIZATION OF YEAST CENTROMERIC REGIONS MBY	12-01-81 05-31-83	0	21600	5 R01 GM 27304-03	77,557	82
DARLINGTON, GRETCHEN J PATHOLOGY	ACTIVATION OF HUMAN HEPATIC GENES IN CELL HYBRIDS CTY	09-01-82 02-28-83	4	21480	7 R01 GM 32111-01	87,826	82
GILBERT, HIRAM F BIOCHEMISTRY	ENZYME CATALYSIS OF PROTON TRANSFER FROM CARBON PB	12-01-81 11-30-82	2	22400	2 R01 GM 25347-04	65,800	82
HERTZBERG, ELLIOT L BIOCHEMISTRY	PROBES FOR THE STUDY OF GAP JUNCTIONAL COMMUNICATION CBY	05-01-82 04-30-83	2	22300	1 R01 GM 30667-01	101,276	82
HOLMQUIST, GERALD P MEDICINE	G-BANDING MECHANISMS IN MAMMALIAN CHROMOSOMES MGN	07-01-82 06-30-83	2	21600	5 R01 GM 23905-06	100,739	82
HORNING, EVAN C INSTITUTE FOR LIPID RESEARCH	ANALYTICAL BIOCHEMISTRY FOR HUMAN STUDIES SSS	08-01-82 07-31-83	2	12840	2 P01 GM 13901-17	356,557	82
HUANG, BESSIE P CELL BIOLOGY	GENETIC STUDIES OF FLAGELLAR DYNEIN ARMS GEN	03-01-82 02-28-83	2	22250	1 R01 GM 30348-01	136,257	82
IRVING, CHARLES S PEDIATRICS	ASSESSMENT OF ALTERNATIVES IN 13C ISOTOPIC MEASUREMENTS SSS	06-01-81 05-31-83	1	12820	1 R01 GM 28783-01	54,618	81
KELLEMS, RODNEY E BIOCHEMISTRY	REGULATION OF MRNA METABOLISM IN ANIMAL CELLS MBY	03-01-82 02-28-83	2	21320	1 R01 GM 30204-01	114,429	82
LAI, EUGENE C CELL BIOLOGY	EUCARYOTIC GENE MUTAGENESIS AND EXPRESSION MGN	07-01-82 06-30-83	1	21750	5 R01 GM 29697-02	108,847	82
MITCHELL, JERRY R MEDICINE	MOLECULAR BASIS OF HUMAN DRUG TOXICITY PTR	08-01-82 07-31-83	0	11300	5 P01 GM 26611-04	352,965	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
HOUSTON	BAYLOR COLLEGE OF MEDICINE								
MOSES, ROBB E	CELLULAR DNA REPAIR MECHANISMS AND MUTAGENESIS								
CELL BIOLOGY	CPA		08-01-82 07-31-83	3	21250	5	R01 GM 24711-05	87,799	82
MOSES, ROBB E	MECHANISMS OF CHROMOSOME REPLICATION								
CELL BIOLOGY	BIO		09-01-82 08-31-83	2	21200	2	R01 GM 19122-10A1	91,183	82
TASH, JOSEPH S	PROTEIN PHOSPHORYLATION IN SPERM FLAGELLAR MOTILITY								
CELL BIOLOGY	CTY		07-01-82 06-30-83	2	22250	1	R01 GM 29496-01A1	100,446	82
WAKIL, SALIH J	THE METABOLISM AND CONTROL OF FATTY ACIDS								
BIOCHEMISTRY	PC		09-01-82 08-31-83	4	22400	2	R01 GM 19091-12	209,871	82
WRAY, GRANVILLE W	PRECONDENSED CHROMOSOMES--STRUCTURE AND BIOCHEMISTRY								
CELL BIOLOGY	GEN		07-01-81 06-30-83	0	21600	5	R01 GM 26415-03	61,069	81
** 21 TOTAL								2,622,844	
HOUSTON	RICE UNIVERSITY								
BENNETT, GEORGE N	STRUCTURE-FUNCTION STUDY OF BACTERIAL PROMOTERS								
BIOCHEMISTRY	MG		04-01-82 03-31-83	2	21310	2	R01 GM 26437-04	100,806	82
BERGET, SUSAN M	TRANSCRIPTIONAL CONTROL BY SMALL RIBONUCLEOPROTEINS								
BIOCHEMISTRY	PC		08-01-82 07-31-83	1	21750	5	R01 GM 29539-02	86,814	82
MATTHEWS, KATHLEEN S	FLUORESCENCE AND PHYSICAL STUDIES OF REPRESSOR PROTEINS								
BIOCHEMISTRY	BBCA		04-01-82 03-31-83	4	21310	2	R01 GM 22441-07	84,960	82
PALMER, GRAHAM A	MOLECULAR MECHANISMS OF BIOLOGICAL REDOX REACTIONS								
BIOCHEMISTRY	BMT		06-01-82 05-31-83	1	22450	5	R01 GM 21337-08	139,998	82
PARRY, RONALD J	BIOSYNTHESIS OF CYCLOPENTANOIDS								
CHEMISTRY	BNP		12-01-81 11-30-82	1	11910	5	R01 GM 26569-04	54,911	82
PARRY, RONALD J	METABOLISM OF CHIRALLY LABELED ADENOSINE								
CHEMISTRY	BNP		12-01-81 11-30-82	2	11920	2	R01 GM 26166-04	55,431	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS								
HOUSTON	RICE UNIVERSITY							
PROCUNIER, JAMES D BIOLOGY	ANALYSIS OF EUCARYOTIC REDUNDANT LOCI GEN	07-01-82 06-30-83	0	21600	5 R01	GM 28008-03	69,778	82
QUIOCHO, FLORANTE A BIOCHEMISTRY	BINDING PROTEINS FOR ACTIVE TRANSPORT AND CHEMOTAXIS BBCB	12-01-81 11-30-82	4	22550	2 R01	GM 21371-08	135,541	82
STEWART, CHARLES R BIOLOGY	MECHANISM OF PHAGE DNA REPLICATION MG	01-01-82 12-31-82	1	21200	5 R01	GM 28488-02	85,855	82
WILSON, LON J CHEMISTRY	MAGNETIC AND MODELING STUDIES OF CYTOCHROME OXIDASE BMT	08-01-82 07-31-83	2	11920	1 R01	GM 28451-01A1	83,784	82
** 10 TOTAL							897,878	
HOUSTON	UNIVERSITY OF HOUSTON AT HOUSTON							
GRAY, HORACE B, JR BIOPHYSICAL SCIENCES	NUCLEIC ACID MODIFICATION WITH SPECIFIC ENDONUCLEASES BIO	04-01-82 03-31-83	1	21200	5 R01	GM 21839-08	77,878	82
KADISH, KARL M CHEMISTRY	REDOX REACTIONS OF IRON PORPHYRINS BMT	08-01-82 07-31-83	1	11920	5 R01	GM 25172-05	70,885	82
KLASS, MICHAEL R BIOLOGY	CELL-SPECIFIC GENE EXPRESSION GEN	09-01-81 08-31-83	0	21750	5 R01	GM 26808-03	65,673	81
NELSON, DANIEL A BIOPHYSICAL SCIENCES	ROLE OF HISTONE ACETYLATION IN GENE EXPRESSION CTY	07-01-82 06-30-83	2	21600	1 R01	GM 29442-01A1	81,865	82
TU, SHIAO-CHUN BIOPHYSICAL SCIENCES	STRUCTURE AND MECHANISM OF FLAVOPROTEIN HYDROXYLASES PB	04-01-82 03-31-83	2	11760	2 R01	GM 25953-04	89,436	82
VESTAL, MARVIN L CHEMISTRY	PROTEIN SEQUENCING BY LIQUID FLOW MASS SPECTROMETRY SSS	09-01-82 08-31-83	0	12840	5 R01	GM 28291-03	45,384	82
VESTAL, MARVIN L CHEMISTRY	CROSSED-BEAM LC-MS FOR INVOLATILE BIOLOGICAL SAMPLES BMT	12-01-81 11-30-82	2	12840	2 R01	GM 24031-06	102,181	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
HOUSTON	UNIVERSITY OF HOUSTON AT HOUSTON								
VESTAL, MARVIN L	LASER DESPORTION MASS SPECTROMETRY								
CHEMISTRY	SSS		04-01-82 03-31-83	1	12840	5	R01 GM 29151-02	63,349	82
** 8 TOTAL								596,651	
HOUSTON	UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON								
BERGET, PETER B	GENETIC ANALYSIS OF STRUCTURE FORMATION								
BIOCHEM AND MOLECULAR BIOLOGY	MBC		04-01-82 03-31-83	1	21320	5	R01 GM 28952-02	71,359	82
CABRAL, FERNANDO R	GENETIC APPROACH TO MICROTUBULE FUNCTION IN CHO CELLS								
MEDICINE	CBY		02-01-82 01-31-83	2	22250	1	R01 GM 29955-01	86,344	82
CHAKRABORTY, RANAJIT	EVOLUTIONARY DYNAMICS OF COMPLEX GENETIC TRAITS								
CTR/DEMOGRAPHIC/POPULA GENETIC	MGN		12-01-81 11-30-82	0	21800	5	R01 GM 28574-02	18,975	82
CHAMBERS, JAMES P	CHARACTERIZATION OF THE OLIGOSACCHARIDES OF GLUCOSIDASE								
PEDIATRICS	PBC		04-01-82 03-31-83	1	22410	5	R01 GM 28949-02	51,445	82
DE MOSS, JOHN A	SUBUNIT/DOMAIN INTERACTIONS IN MULTIFUNCTIONAL ENZYMES								
BIOCHEM AND MOLECULAR BIOLOGY	GEN		05-01-82 04-30-83	0	22400	5	R01 GM 27887-03	101,214	82
DE MOSS, JOHN A	ASSEMBLY OF A MEMBRANE-BOUND MULTI-ENZYME COMPLEX								
BIOCHEM AND MOLECULAR BIOLOGY	MBC		08-01-82 07-31-83	1	22500	5	R01 GM 19511-11	110,029	82
DEDMAN, JOHN R	BIOLOGICAL ROLE OF INTRACELLULAR CA2+-BINDING PROTEINS								
INTERNAL MEDICINE	CP		09-01-82 08-31-83	1	22250	5	R01 GM 29323-03	80,606	82
DOWHAN, WILLIAM	STRUCTURE AND FUNCTION OF MEMBRANE PROTEINS								
BIOCHEM AND MOLECULAR BIOLOGY	BIO	1	07-01-82 06-30-83	4	22300	2	R01 GM 20478-10	97,216	82
DOWHAN, WILLIAM	MEMBRANE PROTEIN BIOSYNTHESIS & ASSEMBLY								
BIOCHEM AND MOLECULAR BIOLOGY	MBC		04-01-82 03-31-83	1	22300	5	R01 GM 25047-05	81,515	82
GUYNN, ROBERT W	KINETICS AND THERMODYNAMICS OF SERINE BIOSYNTHESIS								
PSYCHIATRY AND BEHAVIORAL SCIS	BIO		04-01-82 03-31-83	2	22400	2	R01 GM 26488-04	81,424	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS									
HOUSTON	UNIVERSITY OF TEXAS HLTH SCI CTR HOUSTON								
JULIANO, RUDOLPH L	THE MOLECULAR BASES OF CELL ADHESION								
PHARMACOLOGY	CP		09-01-82 08-31-83	0	22200	5	R01 GM 26165-03	61,952	82
KARNAKY, KARL J. JR	A NEW MODEL SYSTEM TO STUDY CHLORIDE TRANSPORT								
PHYSIOLOGY	PHY		01-01-82 12-31-82	1	22300	5	R01 GM 29099-02	58,817	82
LI, WEN-HSIUNG	STATISTICAL STUDIES OF DNA EVOLUTION								
CTR/DEMOGRAPHIC/POPULA GENETIC	GEN		07-01-82 06-30-83	2	21800	1	R01 GM 30998-01	33,898	82
MC HENRY, CHARLES S	REGULATION OF THE SYNTHESIS OF REPLICATION PROTEINS								
BIOCHEM AND MOLECULAR BIOLOGY	BIO		09-01-82 08-31-83	1	21200	5	R01 GM 25457-05	45,802	82
NALL, BARRY T	PROTEIN FOLDING--THE EFFECT OF SEQUENCE								
BIOCHEM AND MOLECULAR BIOLOGY	BBCA		02-01-81 11-30-82	0	22500	5	R01 GM 25463-03	36,823	81
NEI, MASATOSHI	THEORETICAL POPLUATION GENETICS AND ITS APPLICATIONS								
CTR/DEMOGRAPHIC/POPULA GENETIC	GEN		02-01-82 01-31-83	4	21800	2	R01 GM 20293-10	85,298	82
ROBISON, GEORGE A	HORMONAL & NON-HORMONAL REGULATION OF ADENYLYL CYCLASE								
PHARMACOLOGY	PHRA		12-01-81 11-30-82	0	11870	5	R01 GM 27378-03	94,720	82
THOMPSON, STEPHEN M	ELECTROPHYSIOLOGY OF PROTON TRANSPORT BY EPITHELIA								
PHYSIOLOGY	PHY		07-01-82 06-30-83	2	22300	1	R01 GM 31191-01	59,800	82
THOMPSON, W JOSEPH	BIOLOGICAL ROLE OF CYCLIC NUCLEOTIDE PHOSPHODIESTERASE								
PHARMACOLOGY	BIO		07-01-82 06-30-83	1	22400	5	R01 GM 21361-09	130,308	82
WOLD, FINN	PROTEIN STRUCTURE AND FUNCTION								
BIOCHEM AND MOLECULAR BIOLOGY	BIO		03-01-82 11-30-82	1	22500	7	R01 GM 31305-01	72,297	82
** 20 TOTAL								1,459,842	
HOUSTON	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER								
KUO, MACUS T	CHROMOSOME STRUCTURE AND GENE ARRANGEMENT								
BIOLOGY	MGN		02-01-82 01-31-83	1	21600	5	R01 GM 28573-02	107,332	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES		F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
TEXAS											
HOUSTON	UNIVERSITY OF TEXAS SYSTEM CANCER CENTER										
MURGOLA, EMANUEL J	MISSENSE SUPPRESSION AND MUTATIONALLY ALTERED TRNAS										
MOLECULAR BIOLOGY	MG		03-01-82	02-28-83	3	21320	5	R01 GM	21499-08	60,175	82
ROBBERSON, DONALD L	SEQUENCE SPECIFIC DNA-PROTEIN INTERACTION										
BIOLOGY	MBC		04-01-82	03-31-83	0	21600	5	R01 GM	27774-03	17,016	82
** 3 TOTAL										184,523	
LUBBOCK	TEXAS TECH UNIVERSITY										
ANDERSON, JOHN A	CYTOCHROME P-450 IN ERGOT ALKALOID BIOSYNTHESIS										
CHEMISTRY	BIO		04-01-82	03-31-83	0	11910	5	R01 GM	27617-03	40,545	82
FRALICK, JOE A	CHROMOSOME REPLICATION IN ESCHERICHIA COLI										
MICROBIOLOGY	MBC		12-01-81	08-31-83	0	21200	5	R01 GM	22238-06	43,388	82
JARZEMBSKI, WILLIAM B	CURRENT PATHWAYS IN TISSUE DUE TO ELECTRICAL STIMULUS										
BIOMEDICAL ENGR & COMPUTER MED	SGYB		01-01-81	12-31-82	0	12400	5	R01 GM	24104-03	35,114	81
MORROW, KENNETH J, JR	REGULATORY MUTATIONS AFFECTING HPRT SYNTHESIS										
BIOCHEMISTRY	MGN		12-01-81	11-30-82	0	21480	5	R01 GM	27268-03	27,903	82
ROBINSON, G WILSE	SUBNANOSECOND PRIMARY EVENTS IN BIOLOGY										
CHEMISTRY	BBCA		07-01-82	06-30-83	1	12840	5	R01 GM	23765-05	45,491	82
SRIDHARA, S	GENE ACTIVITY DURING INSECT METAMORPHOSIS										
BIOCHEMISTRY	GEN		09-01-82	06-30-83	1	21700	7	R01 GM	32092-01	47,317	82
** 6 TOTAL										239,758	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
TEXAS									
RICHARDSON	UNIVERSITY OF TEXAS DALLAS								
BREEN, GAIL A	MAMMALIAN MUTANTS WITH DEFECTS IN COMPLEX I								
BIOLOGY	BIO 1	08-01-82 07-31-83	2	21280	1	R01 GM	29780-01A1	93,202	82
BREMER, HANS	REGULATION OF BACTERIAL GROWTH								
BIOLOGY	MG	07-01-82 06-30-83	2	21750	2	R01 GM	15142-13A1	100,240	82
BREMER, HANS	CONTROL OF DNA REPLICATION IN BACTERIA								
BIOLOGY	MBC	09-01-81 08-31-83	0	21200	5	R01 GM	25948-03	63,856	81
GRAY, DONALD M	POLYNUCLEOTIDE AND POLYNUCLEOTIDE-PROTEIN STRUCTURES								
BIOLOGY	BBCA	07-01-82 06-30-83	4	21100	2	R01 GM	19060-10A1	96,947	82
MARSH, ROBERT C	STRUCTURE OF CHROMOSOME REPLICATION ORIGINS								
BIOLOGY	MBC	01-01-82 12-31-82	2	21200	5	R01 GM	23608-06	62,321	82
RUPERT, CLAUD S	REPAIR OF RADIATION-DAMAGED NUCLEIC ACID								
BIOLOGY	RAD	04-01-82 03-31-83	0	21250	5	R01 GM	16547-17	117,944	82
** 6 TOTAL								534,510	
SAN ANTONIO	SOUTHWEST FOUNDATION FOR RESEARCH & EDUC								
VANDEBERG, JOHN L	ISOZYME GENETICS OF MAMMALS AND BIRDS								
CARDIO-PULMONARY DISEASES	MGN	09-01-82 08-31-83	0	21480	5	R01 GM	29249-03	160,339	82
** 1 TOTAL								160,339	
SAN ANTONIO	UNIVERSITY OF TEXAS HLTH SCI CTR SAN ANT								
BARNES, LARRY D	MODULATION OF THE CELL CYCLE BY CYCLIC NUCLEOTIDES								
BIOCHEMISTRY	CBY	01-01-82 12-31-82	0	22200	5	R01 GM	27220-03	45,074	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
TEXAS								
SAN ANTONIO	UNIVERSITY OF TEXAS HLTH SCI CTR SAN ANT							
DOUGLAS, MICHAEL G BIOCHEMISTRY	POST TRANSLATIONAL MODIFICATION IN MEMBRANE BIOGENESIS CTY	08-01-82 07-31-83	2	22300	2	R01 GM 26713-04	54,984	82
DOUGLAS, MICHAEL G BIOCHEMISTRY	ASSEMBLY OF THE YEAST MITOCHONDRIAL ATPASE COMPLEX GEN	12-01-81 11-30-82	4	22300	2	R01 GM 25648-04	115,722	82
HOROWITZ, PAUL M BIOCHEMISTRY	STRUCTURE-FUNCTION IN THE ENZYME RHODANESE BBCA	04-01-82 03-31-83	1	22500	5	R01 GM 25177-05	49,406	82
KLEBE, ROBERT J ANATOMY	SOMATIC CELL GENETICS OF DIFFERENTIATED PHENOTYPES MGN	12-01-81 11-30-82	0	21480	7	R01 GM 31056-01	9,329	81
LUDUENA, RICHARD F BIOCHEMISTRY	CONTROL OF MICROTUBULE ASSEMBLY IN VITRO AND IN VIVO CBY	09-15-82 08-31-83	2	22250	2	R01 GM 23476-04	85,563	82
NISHIMURA, JONATHAN S BIOCHEMISTRY	STUDY OF SUCCINYL-COA SYNTHETASE AND RELATED ENZYMES PBC	09-01-82 08-31-83	1	22400	5	R01 GM 17534-12	77,160	82
ROBINSON, NEAL C BIOCHEMISTRY	HYDROPHOBIC ASSOCIATIONS OF MEMBRANE COMPLEXES PB	01-01-82 12-31-82	3	22300	5	R01 GM 24795-05	73,441	82
SERWER, PHILIP BIOCHEMISTRY	BIOPHYSICS AND GENETICS OF VIRAL DNA PACKAGING MG	07-01-82 06-30-83	0	21320	5	R01 GM 24365-06	73,651	82
SPEEG, KERMIT V MEDICINE	HEPATIC, CEREBRAL AND RENAL SIDE EFFECTS OF CIMETIDINE PHRA	06-01-82 01-31-83	1	11890	7	R01 GM 31780-01	79,102	82
** 10 TOTAL							663,432	
SAN ANTONIO	UNIVERSITY OF TEXAS SAN ANTONIO							
CHAMPNEY, WILLIAM S ALLIED HEALTH & LIFE SCIENCES	PROTEIN SYNTHESIS MUTANTS OF E COLI MBC	07-01-81 06-30-83	0	21320	5	R01 GM 27622-03	65,586	81
** 1 TOTAL							65,586	
*** 1 *CENTERS							132,793	
*** 150 NONCENTER							12,281,188	
*** 151 TOTAL							12,413,981	

INVESTIGATOR / DEPARTMENT	IRG SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
UTAH									
LOGAN		UTAH STATE UNIVERSITY							
COMINS, DANIEL L		ALKALOID SYNTHESIS VIA 2-ALKENYL-1,2-DIHYDROPYRIDINES							
CHEMISTRY AND BIOCHEMISTRY	MCHA	08-01-82 07-31-83	2	11910	1	R01 GM	30255-01A1	39,393	82
EMERY, THOMAS F		SYNTHESIS AND BIOASSAY OF SIDEROCHROME ANALOGS							
CHEMISTRY AND BIOCHEMISTRY	BMT	03-01-82 02-28-83	0	11930	5	R01 GM	26711-03	48,121	82
LANGERMAN, NEAL R		ENERGY STATE OF FLAVOPROTEINS							
CHEMISTRY AND BIOCHEMISTRY	BBCA	07-01-82 06-30-83	0	22400	5	R01 GM	27953-03	40,671	82
SPENCE, JACK T		THE FUNCTION OF MOLYBDENUM IN BIOLOGICAL SYSTEMS							
CHEMISTRY AND BIOCHEMISTRY	BMT	05-01-82 04-30-83	1	11920	5	R01 GM	08347-22	57,645	82
** 4 TOTAL								185,830	
SALT LAKE CITY		UNIVERSITY OF UTAH							
BAKER, WILLIAM K		GENETIC CONTROL OF DIFFERENTIAL CELL FUNCTION							
BIOLOGY	GEN	01-01-81 12-31-82	0	21700	5	R01 GM	23707-05	56,566	81
CAPECCHI, MARIO R		THE CONTROL, ASSEMBLY AND TERMINATION OF PROTEINS							
BIOLOGY	MGN	12-01-81 11-30-82	4	21750	2	R01 GM	21168-09	165,572	82
CARROLL, DANA		DEVELOPMENTAL CONTROL AND EVOLUTION OF 5S RNA GENES							
CELLULAR, VIRAL/MOLECULAR BIOL	GEN	06-01-82 05-31-83	1	21200	5	R01 GM	22232-08	115,762	82
CASJENS, SHERWOOD R		BACTERIOPHAGE P22 ASSEMBLY AND ITS GENETIC CONTROL							
CELLULAR, VIRAL/MOLECULAR BIOL	VR	02-01-81 10-31-82	0	21320	5	R01 GM	21975-06	48,548	81
EPSTEIN, WILLIAM W		PHOTOCHEMICAL TECHNIQUES ON BIOLOGICAL PROBLEMS							
CHEMISTRY	MCHA	07-01-81 11-30-82	0	11940	5	R01 GM	26245-03	67,755	81
EYRING, EDWARD M		STRUCTURAL STUDIES OF NUCLEOSIDES AND NUCLEOTIDES							
CHEMISTRY	BBCA	12-01-81 11-30-82	0	22500	5	R01 GM	12862-17	75,734	82
GEORGOPOULOS, CONSTANTINE P		BACTERIAL FUNCTIONS IN PHAGE DEVELOPMENT							
CELLULAR, VIRAL/MOLECULAR BIOL	MBC	04-01-82 03-31-83	2	21200	5	R01 GM	23917-06	124,951	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
UTAH								
SALT LAKE CITY	UNIVERSITY OF UTAH							
GIDDINGS, J CALVIN / CHEMISTRY	BIOMEDICAL SEPARATIONS: FIELD-FLOW FRACTIONATION / BMT	02-01-82 01-31-83	4	12820	2	R01 GM 10851-25	127,587	82
GLADYSZ, JOHN A / CHEMISTRY	ASYMMETRIC SYNTHESIS USING CHIRAL RHENIUM COMPLEXES / BMT	07-01-82 06-30-83	0	11940	7	R01 GM 31280-01	39,066	82
GRANT, DAVID M / CHEMISTRY	CARBON-13 MAGNETIC RESONANCE--METHODS AND THEORY / BBCB	06-01-82 05-31-83	0	12840	5	R01 GM 08521-22	111,758	82
GRAY, WILLIAM R / BIOLOGY	STRUCTURE, FUNCTION, GENETICS OF HISTIDINOL DH'ASE / BIO	04-01-82 03-31-83	1	22400	5	R01 GM 24686-05	108,683	82
GURNEY, THEODORE, JR / BIOLOGY	DRY FRACTIONATION OF MAMMALIAN CELLS / MBY	12-01-80 11-30-82	0	21750	5	R01 GM 26137-03	64,433	81
HERRICK, GLENN A / CELLULAR, VIRAL/MOLECULAR BIOL	SOMATIC GENOME ALTERATIONS IN OXYTRICHA FALLAX / MBY	04-01-82 03-31-83	1	21600	5	R01 GM 25203-05	115,207	82
HUANG, WAI M / CELLULAR, VIRAL/MOLECULAR BIOL	DNA INITIATION AND REPLICATION / MG	04-01-82 03-31-83	1	21200	5	R01 GM 21960-08	96,620	82
JANATA, JIRI / BIOENGINEERING	CHEMICALLY SENSITIVE FIELD EFFECT TRANSISTORS / SB	04-01-82 03-31-83	1	12400	5	R01 GM 22952-06	98,455	82
JANATA, JIRI / BIOENGINEERING	IMMUNOCHEMICALLY SENSITIVE FIELD EFFECT TRANSISTOR / SGYB	04-01-81 03-31-83	0	12400	5	R01 GM 26508-03	58,290	81
KECK, GARY E / CHEMISTRY	CHIRAL APPROACHES TO ANTIBIOTIC SYNTHESIS / MCHA	06-01-82 05-31-83	1	11910	5	R01 GM 28961-02	61,760	82
KUEHL, LEROY R / BIOCHEMISTRY	NONHISTONE NUCLEAR PROTEINS / PC	06-01-82 05-31-83	1	21600	5	R01 GM 13864-17	90,181	82
LYMAN, DONALD J / MATERIALS SCIENCE AND ENGR	BIOMEDICAL ENGINEERING CENTER FOR POLYMERIC IMPLANTS / SRC	02-01-82 01-31-83	1	12300	5	P01 GM 24487-05	477,537	82
MC CLOSKEY, JAMES A / MEDICINAL CHEMISTRY	MASS SPECTROMETRY OF NUCLEIC ACIDS AND THEIR ANALOGS / SSS	01-01-82 12-31-82	1	12840	5	R01 GM 21584-08	198,778	82
MC CLOSKEY, JAMES A / MEDICINAL CHEMISTRY	STRUCTURAL AND ANALYTICAL STUDIES OF NA CONSTITUENTS / SSS	05-01-82 04-30-83	2	21320	5	R01 GM 29812-08	155,507	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
UTAH									
SALT LAKE CITY	UNIVERSITY OF UTAH								
MEUZELAAR, HENDRIK L PATHOLOGY	CELL AND TISSUE PROFILING BY AUTOMATED PYROLYSIS-MS SSS		03-01-82 02-28-83	1	12840	5	R01 GM 28581-02	96,168	82
MICHL, JOSEF CHEMISTRY	PHOTORESOLUTION AND RACEMIZATION KINETICS OF CONFORMERS BBCA		02-01-82 01-31-83	1	22500	1	R01 GM 29984-01	42,636	82
MOODY, FRANK G SURGERY	TRAUMA AND BURN RESEARCH CENTER SRC		07-01-82 06-30-83	2	13300	*5	P50 GM 23095-07	436,445	82
NINNEMANN, JOHN L SURGERY	LPS ACTIVATION OF SUPPRESSOR CELLS AFTER BURN INJURY SAT		09-01-82 08-31-83	0	13410	5	R01 GM 29223-03	123,640	82
NINNEMANN, JOHN L SURGERY	IMMUNE CONSEQUENCES OF THERMAL INJURY SAT		04-01-82 03-31-83	1	13410	5	R01 GM 29226-02	82,111	82
OLIVERA, BALDOMERO M BIOLOGY	PYRIDINE NUCLEOTIDES--TURNOVER AND REGULATION MBY		02-01-82 01-31-83	1	22400	5	R01 GM 25654-04	48,650	82
OLIVERA, BALDOMERO M BIOLOGY	A BIOCHEMICAL CHARACTERIZATION OF CONUS TOXINS PC		04-01-81 03-31-83	0	11910	5	R01 GM 22737-04	82,948	81
OLIVERA, BALDOMERO M BIOLOGY	DISCONTINUOUS DNA SYNTHESIS IN VITRO PC		05-01-82 04-30-83	1	21200	5	R01 GM 26107-12	100,107	82
OTHMER, HANS G MATHEMATICS	DYNAMIC PATTERN IN CHEMICALLY-REACTING SYSTEMS SSS	6	09-01-82 08-31-83	3	12200	2	R01 GM 29123-03	74,232	82
PARKINSON, JOHN S BIOLOGY	GENETICS OF CHEMOTACTIC BEHAVIOR IN ESCHERICHIA COLI MG		06-01-82 05-31-83	4	22200	2	R01 GM 19559-10	106,239	82
PARKINSON, JOHN S BIOLOGY	OVERLAPPING GENES IN ESCHERICHIA COLI GEN		12-01-81 11-30-82	1	21750	5	R01 GM 28706-02	65,433	82
POULTER, C DALE CHEMISTRY	STUDIES OF STEROL BIOSYNTHESIS BNP		04-01-82 03-31-83	2	11910	2	R01 GM 25521-04	99,417	82
POULTER, C DALE CHEMISTRY	SUBSTRATE ANALOGS FOR TERPENE CONDENSATION REACTIONS BNP		06-01-82 05-31-83	3	11920	5	R01 GM 21328-08	150,738	82
RECHSTEINER, MARTIN C BIOLOGY	MICROINJECTION STUDIES ON PROTEIN DEGRADATION CTY		01-01-82 12-31-82	2	21320	5	R01 GM 27159-03	79,073	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
UTAH									
SALT LAKE CITY	UNIVERSITY OF UTAH								
RECHSTEINER, MARTIN C BIOLOGY	MICROINJECTION STUDIES ON PROTEIN DEGRADATION CTY		05-01-82 12-31-82	2	21320	3	R01 GM 27159-03S1	12,570	82
RECHSTEINER, MARTIN C BIOLOGY	INJECTION OF CHROMATIN COMPONENTS INTO MAMMALIAN CELLS CTY		05-01-82 04-30-83	4	21600	1	R01 GM 30445-01	72,395	82
ROTH, JOHN R BIOLOGY	TRANSFER RNA PRODUCTION AND ROLE IN GENE REGULATION MG		01-01-82 12-31-82	4	21320	2	R01 GM 23408-06	163,950	82
ROTH, JOHN R BIOLOGY	GENETIC ANALYSIS OF BACTERIAL CHROMOSOME STRUCTURE MBC		12-01-81 11-30-82	0	21750	5	R01 GM 27068-03	52,103	82
SCHWEIZER, MARTIN P MEDICINAL CHEMISTRY	CARBON-13 NMR STUDIES OF TRNA SYNTHETASE INTERACTIONS BBCA		07-01-82 06-30-83	2	21320	2	R01 GM 25512-04A1	88,166	82
UEDA, ISSAKU ANESTHESIOLOGY	AROMATIC AMINE LOCAL ANESTHETICS AND MEMBRANES SAT		04-01-82 03-31-83	0	13200	5	R01 GM 27670-03	54,701	82
UEDA, ISSAKU ANESTHESIOLOGY	ANESTHETIC INTERACTION WITH MODEL PROTEINS SAT		07-01-82 06-30-83	2	13200	2	R01 GM 26950-04	69,053	82
WHITE, RAYMOND L CELLULAR, VIRAL/MOLECULAR BIOL	HUMAN LINKAGE MAPPING WITH DNA POLYMORPHISM MGN		01-01-82 12-31-82	0	21480	5	R01 GM 29789-02	126,629	82
WINGE, DENNIS R INTERNAL MEDICINE	METAL CHELATION IN METALLOTHIONEIN BMT		05-01-82 04-30-83	2	22400	1	R01 GM 30482-01	119,466	82
WOLSTENHOLME, DAVID R BIOLOGY	VARIANTS OF RAT MITOCHONDRIAL DNA CTY		04-01-81 09-30-82	0	21280	5	R01 GM 26520-03	50,115	81
WOLSTENHOLME, DAVID R BIOLOGY	STRUCTURE OF MITOCHONDRIAL DNA CTY		09-01-81 08-31-83	0	21200	5	R01 GM 18375-11	139,354	81
** 45 TOTAL								4,995,089	
*** 1 *CENTERS								42,636	
*** 48 NONCENTER								5,138,283	
*** 49 TOTAL								5,180,919	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
VERMONT									
BURLINGTON	UNIVERSITY OF VERMONT & ST AGRIC COLLEGE								
GAMELLI, RICHARD L	LYMPHOMYELOPOIETIC RESPONSE TO BURN INJURY								
SURGERY	SAT		08-01-82 07-31-83	1	13450	5	R23 GM 29371-02	52,031	82
NYBORG, WESLEY L	BIOPHYSICAL BASIS FOR THRESHOLDS IN BIO-ULTRASOUND								
PHYSICS	RNM		07-31-82 06-30-83	0	12910	5	R01 GM 08209-18	157,396	82
** 2 TOTAL								209,427	
*** 0 *CENTERS								0	
*** 2 NONCENTER								209,427	
*** 2 TOTAL								209,427	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
VIRGINIA									
BLACKSBURG			VIRGINIA POLYTECHNIC INST AND ST UNIV						
GOOD, IRVING J STATISTICS	SSS		PROBABILITY ESTIMATION 12-01-81 11-30-82	2	12100	5	R01 GM 18770-10	110,929	82
KEENAN, THOMAS W BIOCHEMISTRY AND NUTRITION	CBY		ENDOMEMBRANE INTERCONVERSION IN MILK FORMATION 09-01-82 08-31-83	1	22300	5	R01 GM 31244-02	109,671	82
STORRIE, BRIAN BIOCHEMISTRY AND NUTRITION	CBY		PROCESSING OF PINOCYTIC VESICLES IN FIBROBLASTS 08-01-82 07-31-83	0	22300	5	R01 GM 28188-03	60,563	82
TAYLOR, LARRY T CHEMISTRY	BMT		STRUCTURE AND REACTIVITY OF MANGANESE-OXYGEN COMPLEXES 09-01-81 03-31-83	0	11920	5	R01 GM 21844-06	45,751	81
TYSON, JOHN J BIOLOGY	CBY		CONTROL OF NUCLEAR DIVISION IN PHYSARUM POLYCEPHALUM 04-01-82 03-31-83	1	22200	5	R01 GM 27629-03	43,285	82
WALLACE, BRUCE BIOLOGY	GEN		EVOLUTIONARY AND DEVELOPMENTAL GENETICS OF DROSOPHILA 04-01-82 03-31-83	1	21700	5	R01 GM 29810-02	43,003	82
** 6 TOTAL								413,202	
CHARLOTTESVILLE			UNIVERSITY OF VIRGINIA CHARLOTTESVILLE						
BALIAN, GARY ORTHOPEDICS	PBC		INTERACTION OF CONNECTIVE TISSUE MOLECULES WITH CELLS 02-01-82 01-31-83	1	22200	5	R01 GM 28577-02	51,058	82
BAUERLE, RONALD H BIOLOGY	MBC		GENETIC ANALYSIS OF THE ASSEMBLY OF AN ENZYME COMPLEX 04-01-82 03-31-83	0	22400	5	R01 GM 26293-03	79,441	82
BENJAMIN, DAVID C MICROBIOLOGY	MGN		PROTEIN FOLDING: IMMUNOCHEMICAL AND GENETIC ANALYSES 08-01-82 07-31-83	2	21320	5	R01 GM 28241-03	91,075	82
BILTONEN, RODNEY L PHARMACOLOGY	BBCB		A MODEL CALCIUM TRANSPORT SYSTEM 07-01-82 06-30-83	1	22300	5	R01 GM 26894-04	103,284	82
BLOODGOOD, ROBERT A ANATOMY	CBY		STUDIES ON MEMBRANE-ASSOCIATED MOTILITY 07-01-82 06-30-83	2	22300	2	R01 GM 28766-02A1	97,897	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
VIRGINIA										
CHARLOTTESVILLE	UNIVERSITY OF VIRGINIA CHARLOTTESVILLE									
EMERSON, CHARLES P, JR / BIOLOGY	ORGANIZATION AND REGULATION OF MUSCLE GENES	GEN		08-01-82 07-31-83	4	21600	2	R01 GM 26706-04	148,527	82
FOX, JAY W / MICROBIOLOGY	CHARACTERIZATION & INHIBITION OF SNAKE HEMORRHAGIC TOXIN	TOX		08-01-82 07-31-83	2	11790	1	R01 GM 31289-01	44,990	82
GRAINGER, ROBERT M / BIOLOGY	FUNCTIONAL ORGANIZATION OF A PURIFIED EUKARYOTIC GENE	GEN		01-01-82 12-31-82	1	21600	5	R01 GM 24430-05	104,738	82
GRAINGER, ROBERT M / BIOLOGY	THE ROLE OF OOCYTE PROTEINS AND RNAS IN DEVELOPMENT	GEN		09-01-81 08-31-83	0	21700	5	R01 GM 26139-03	71,080	81
HAMLIN, JOYCE L / BIOCHEMISTRY	CONTROL OF EUKARYOTIC DNA SYNTHESIS	SSS		12-01-81 11-30-82	2	21200	2	R01 GM 26108-04	120,311	82
HARRISON, WILLARD W / CHEMISTRY	BIOLOGICAL TRACE ANALYSIS BY HOLLOW CATHODE GLOW	BMT		08-01-81 07-31-83	0	12820	5	R01 GM 14569-14	60,175	81
HECHT, SIDNEY M / CHEMISTRY	NUCLEOTIDE REPLACEMENTS IN TRANSFER RNA	PC		04-01-82 03-31-83	0	21320	5	R01 GM 27815-03	73,576	82
HOLLOWAY, PETER W / BIOCHEMISTRY	THE DYNAMIC STATE OF CYTOCHROME B5 IN MEMBRANES	PB		01-01-82 12-31-82	3	22300	5	R01 GM 23858-05	94,730	82
HOWARD, THOMAS H / PEDIATRICS	STUDY OF ACTIN IN POLYMORPHONUCLEAR LEUKOCYTES	CBY		09-01-82 08-31-83	1	22250	5	R01 GM 29477-02	57,484	82
HUANG, CHING-HSIEN / BIOCHEMISTRY	PHOSPHOLIPID VESICLES--MODEL FOR BIOLOGICAL MEMBRANES	BBCB		05-01-82 04-30-83	4	22300	2	R01 GM 17452-11	99,644	82
HUANG, CHING-HSIEN / BIOCHEMISTRY	PROTEIN KINASE--STRUCTURE AND BIOLOGICAL ACTIVITY	PBC		07-01-82 06-30-83	0	22400	5	R01 GM 22430-06	109,707	82
JOHNSON, MICHAEL L / PHARMACOLOGY	ANALYSIS OF MODELS OF HEMOGLOBIN ACTION	EH		01-01-82 12-31-82	1	22500	5	R01 GM 28928-02	35,302	82
KADNER, ROBERT J / MICROBIOLOGY	GENE AMPLIFICATION AND MEMBRANE PROTEINS	SSS		09-15-82 08-31-83	2	22300	2	R01 GM 19078-10A1	81,639	82
KUPKE, DONALD W / BIOCHEMISTRY	CALMODULIN-CA++-MG++ INTERACTIONS: VOLUME PROPERTIES	BBCA		04-01-82 03-31-83	0	22500	5	R01 GM 29078-02	58,670	82

VIRGINIA

CHARLOTTESVILLE — UNIVERSITY OF VIRGINIA CHARLOTTESVILLE

INVESTIGATOR DEPARTMENT	PROJECT TITLE	IRG	SUB	START DATE	END DATE	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
KUTCHAI, HOWARD C PHYSIOLOGY	RED CELLS AND CHICK HEART: TRANSPORT AND FLUIDITY	PHY		08-01-82	07-31-83	0	22300	5	R01 GM 24168-06	66,294	82
LANGDON, ROBERT G BIOCHEMISTRY	MECHANISM OF GLUCOSE TRANSPORT THROUGH BIOMEMBRANES	PB		08-01-82	07-31-83	0	22300	5	R01 GM 27171-03	90,592	82
LYNCH, CARL, III ANESTHESIOLOGY	CALCIUM CURRENT DEPRESSION BY VOLATILE ANESTHETICS	SAT		08-01-82	07-31-83	2	13250	1	R23 GM 31144-01	40,783	82
MILLER, EDWARD D, JR ANESTHESIOLOGY	ANESTHETIC AGENTS--RENIN--HYPERTENSION	SAT		07-01-82	06-30-83	0	13200	5	R01 GM 24313-06	70,933	82
MILLER, OSCAR L, JR BIOLOGY	ULTRA STRUCTURAL STUDIES OF GENETIC ACTIVITY	GEN		12-01-81	11-30-82	0	21600	5	R01 GM 21020-06	116,131	82
OGILVIE, JAMES W BIOCHEMISTRY	PHOSPHOFRUCTOKINASE: STRUCTURE-FUNCTION RELATIONSHIPS	BIO		04-01-82	09-30-83	0	22400	5	R01 GM 27840-03	44,757	82
REBHUN, LIONEL I BIOLOGY	CONTROL OF SULFHYDRYLS OF TUBULIN AND OTHER PROTEINS	MBY		07-01-81	12-31-82	0	22250	5	R01 GM 22407-06	74,424	81
REBHUN, LIONEL I BIOLOGY	ISOLATION AND CHARACTERIZATION OF MITOTIC ORGANELLES	CTY		07-01-81	12-31-82	0	22250	5	R01 GM 26784-03	80,421	81
SANDO, JULIANNE J PHARMACOLOGY	CELLULAR MECHANISM OF ACTION OF PHORBOL ESTER PROMOTERS	PBC		07-01-82	06-30-83	2	22200	1	R01 GM 31184-01	69,526	82
SCHNAITMAN, CARL A MICROBIOLOGY	CELL SURFACE MEMBRANE PROTEINS	MBY		04-01-82	03-31-83	2	22300	5	R01 GM 18006-11	78,588	82
SMITH, MALCOLM M MICROBIOLOGY	REGULATION OF HISTONE GENE EXPRESSION IN YEAST	GEN		04-01-82	03-31-83	1	21750	5	R01 GM 28920-02	60,278	82
THOMPSON, THOMAS E BIOCHEMISTRY	A STUDY OF PHOSPHOLIPID BILAYER MEMBRANES	BBCB		05-01-82	04-30-83	4	22300	2	R01 GM 14628-17	107,877	82
THOMPSON, THOMAS E BIOCHEMISTRY	THE PROPERTIES OF BILAYERS CONTAINING GLYCOSPHINGOLIPIDS	SSS		01-01-82	12-31-82	1	22300	5	R01 GM 23573-05	56,862	82
TILLACK, THOMAS W PATHOLOGY	GLYCOLIPID LOCALIZATION IN LIPOSOMES AND MEMBRANES	CTY		12-01-81	11-30-82	0	22300	5	R01 GM 26234-03	63,075	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
VIRGINIA									
CHARLOTTESVILLE			UNIVERSITY OF VIRGINIA CHARLOTTESVILLE						
WRIGHT, THEODORE R BIOLOGY	GEN		ONTOGENY AND GENETIC CONTROL OF ENZYME ACTIVITY 05-01-82 04-30-83	4	21700	2	R01 GM 19242-11	198,378	82
** 34 TOTAL								2,802,247	
RICHMOND			VIRGINIA COMMONWEALTH UNIVERSITY						
CHLEBOWSKI, JAN BIOCHEMISTRY	BBCA		ASSEMBLY, ACTIVATION AND REGULATION OF ENZYMES 06-01-82 05-31-83	1	22400	5	R01 GM 27493-04	59,986	82
COHEN, IRWIN K SURGERY	SAT		COLLAGEN METABOLISM IN WOUND REPAIR AND KELOID 12-01-81 11-30-82	2	13420	5	R01 GM 20298-09	112,050	82
EAVES, LINDON J HUMAN GENETICS	MGN		RESOLVING POWER OF KINSHIP ANALYSIS FOR GENETIC RESEARCH 02-01-82 01-31-83	3	21400	1	R01 GM 30250-01	21,538	82
HAWKRIDGE, FRED M CHEMISTRY	BMT		ELECTRON TRANSFER AT SURFACE ELECTRODES 03-01-81 02-28-83	0	22450	5	R01 GM 27208-02	36,918	81
HOLMES, WALTER M MICROBIOLOGY	MG		GENE ORGANIZATION AND EXPRESSION OF TRNA 12-01-81 11-30-82	4	21600	2	R01 GM 25871-04	94,089	82
HUF, ERNST G MEDICINE	PHY		METABOLISM AND ACTIVE ION TRANSPORT IN SKIN 07-01-82 06-30-83	0	22300	5	R01 GM 03545-27	16,792	82
SCHIRCH, LAVERNE G BIOCHEMISTRY	PB		PHYSICAL AND STRUCTURAL STUDIES OF HYDROXYMETHYLASES 07-01-82 06-30-83	0	22400	5	R01 GM 28143-03	70,114	82
SUGERMAN, HARVEY J SURGERY	SB		PATHOPHYSIOLOGIC EFFECTS OF PERITONITIS 01-01-82 12-31-82	0	13450	5	R23 GM 27245-03	45,373	82
TOPICH, JOSEPH A CHEMISTRY	BMT		STRUCTURE-REACTIVITY CORRELATIONS FOR MO COMPLEXES 09-30-82 08-31-83	2	21100	1	R01 GM 28659-01A1	47,664	82
VAN TUYLE, GLENN C BIOCHEMISTRY	MBY		PACKAGING AND REPLICATION OF MITOCHONDRIAL DNA 04-01-82 03-31-83	2	21280	2	R01 GM 22597-07	89,837	82
** 10 TOTAL								594,361	
*** 0 *CENTERS								0	
*** 50 NONCENTER								3,809,810	
*** 50 TOTAL								3,809,810	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON								
PULLMAN	WASHINGTON STATE UNIVERSITY							
DUNKER, A KEITH BIOCHEMISTRY AND BIOPHYSICS	LASER RAMAN STUDIES OF LIPID/PROTEIN INTERACTIONS BBCB	04-01-82 03-31-83	3	22300	2	R01 GM 25937-04	65,213	82
HAYTON, WILLIAM L NONE	RATE LIMITING BARRIERS IN INTESTINAL DRUG ABSORPTION PHRA	04-01-82 01-31-84	0	11850	5	R01 GM 27924-03	42,947	82
HAZELBAUER, GERALD L BIOCHEMISTRY AND BIOPHYSICS	MOLECULAR STUDIES OF CHEMORECEPTION MBC	04-01-82 03-31-83	2	22300	1	R01 GM 29963-01	107,443	82
KOLATTUKUDY, P E INST OF BIOLOGICAL CHEMISTRY	BIOCHEMISTRY OF NATURAL PRODUCTS PC	01-01-82 12-31-82	4	11910	2	R01 GM 18278-12	226,230	82
LEGG, JOHN I CHEMISTRY	BINDING OF SUBSTITUTION-INERT METAL IONS TO PROTEINS BMT	04-01-82 03-31-83	0	11870	5	R01 GM 23081-06	75,344	82
LOEWUS, FRANK A INST OF BIOLOGICAL CHEMISTRY	INOSITOL METABOLISM BIO	09-01-81 02-28-83	0	22400	5	R01 GM 22427-07	117,140	81
MATTESON, DONALD S CHEMISTRY	AMINO BORONIC ACIDS BMT	09-15-82 08-31-83	2	11930	2	R01 GM 27109-03	42,951	82
MC FADDEN, BRUCE A BIOCHEMISTRY AND BIOPHYSICS	BIOCHEMISTRY OF MEMBRANE AND CATALYTIC PROTEINS MBC	08-01-82 07-31-83	3	22500	5	R01 GM 19972-13	120,461	82
MC MAHON, DANIEL S GENETICS	DICTYOSTELIUM DISCOIDEUM PLASMA MEMBRANES MBC	04-01-82 03-31-83	1	22300	5	R01 GM 29830-02	110,186	82
MEYER, RICH B, JR NONE	MECHANISM PROBES FOR NUCLEOTIDE BIOSYNTHETIC ENZYMES MCHA	12-01-81 11-30-82	0	11930	5	R01 GM 29291-02	58,307	82
MOFFETT, DAVID F ZOOLOGY	POTASSIUM TRANSPORT BY INSECT MIDGUT PHY	04-01-81 09-30-82	0	22300	5	R01 GM 26287-03	42,974	81
RANDALL, LINDA L BIOCHEMISTRY AND BIOPHYSICS	EXPORT OF PROTEINS IN ESCHERICHIA COLI MBC	02-01-82 03-31-83	0	22300	5	R01 GM 29798-02	82,737	82
** 12 TOTAL							1,091,933	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON									
RICHLAND	PACIFIC NORTHWEST LABORATORIES								
SIKOV, MELVIN R BIOLOGY	EFFECT OF EXPOSURE OF THE PRENATAL RAT TO ULTRASOUND RNM		04-01-82 03-31-83	1	12910	5	R01 GM 20661-09	170,628	82
** 1 TOTAL								170,628	
SEATTLE	FRED HUTCHINSON CANCER RESEARCH CENTER								
COHEN, EDWARD H DEVELOPMENTAL BIOLOGY PROGRAM	ORGANIZATION AND EVOLUTION OF DROSOPHILA DNA GEN		06-01-81 12-31-82	0	21600	7	R01 GM 30340-01	45,658	81
HAKOMORI, SEN-ITIROH BIOCHEMICAL ONCOLOGY	ANTI-CARBOHYDRATE ANTIBODIES IN CELL BIOLOGY CP		03-01-82 02-28-83	3	22300	5	R01 GM 23100-06	75,687	82
HENIKOFF, STEVEN DEVELOPMENTAL BIOLOGY	GENE REGULATION AND CHROMOSOMAL POSTION EFFECTS GEN		04-01-82 03-31-83	1	21600	5	R01 GM 29009-02	59,509	82
MARGOLIS, ROBERT L MOLECULAR BIOLOGY	REGULATION OF THE MICROTUBULE STEADY-STATE CBY		07-01-82 06-30-83	0	22250	5	R01 GM 28189-03	50,904	82
PRENTICE, ROSS L EPIDEMIOLOGY AND BIOSTATISTICS	STATISTICAL METHODS FOR FAILURE TIME DATA SSS		08-01-82 07-31-83	0	13901	5	R01 GM 28314-03	78,474	82
PRENTICE, ROSS L PROG IN EPIDEM/BIOSTATISTICS	STATISTICAL METHODS FOR CASE-CONTROL STUDIES SSS		01-01-82 12-31-82	0	13901	5	R01 GM 24472-05	38,105	82
REEDER, RONALD H BIOLOGY	ANTIBODIES AGAINST NUCLEOLAR PROTEINS MBY		04-01-82 03-31-83	1	21600	5	R01 GM 28780-02	110,217	82
REEDER, RONALD H MOLECULAR DEVELOPMENT	CONTROL OF RIBOSOMAL GENE TRANSCRIPTION MBY		08-01-82 07-31-83	1	21750	5	R01 GM 26624-04	106,158	82
SMITH, GERALD R VIRAL ONCOLOGY	MOLECULAR ANALYSIS OF HOSTSPOTS OF GENETIC RECOMBINATION VR		07-01-82 12-31-82	2	21200	7	R01 GM 31693-01	28,756	82
WEINTRAUB, HAROLD M GENETICS PROGRAM	THE COMPLEXITY OF CHROMOSOME STRUCTURE AND ASSEMBLY MBY		05-01-82 04-30-83	1	21600	5	R01 GM 26176-04	57,092	82

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON									
SEATTLE	FRED HUTCHINSON CANCER RESEARCH CENTER								
ZAKIAN, VIRGINIA A ONCOLOGICAL GENETICS	DNA REPLICATION AND CHROMOSOME STRUCTURE IN YEAST GEN		07-01-82 06-30-83	2	21200	2	R01 GM 26938-04	112,138	82
** 11 TOTAL								762,698	
SEATTLE	UNIVERSITY OF WASHINGTON								
AGABIAN, NINA M BIOCHEMISTRY	REGULATION OF CELL SURFACE DEVELOPMENT IN CAULOBACTER MBC		07-01-82 06-30-83	3	22300	5	R01 GM 25527-05	99,711	82
ANDERSEN, NIELS H CHEMISTRY	ASSAY METHODS FOR ARACHIDONIC ACID METABOLITES BMT		07-01-82 06-30-83	0	12820	5	R01 GM 26935-04	80,523	82
BAKKEN, AIMEE H ZOOLOGY	DISSECTING GENE FUNCTION BY ELECTRON MICROSCOPY GEN		03-01-82 02-28-83	1	21750	5	R01 GM 28905-02	73,734	82
BENDICH, ARNOLD J BOTANY	REPEATED DNA SEQUENCES AND LAND PLANT EVOLUTION GEN		03-01-81 11-30-82	0	21100	5	R01 GM 22870-06	95,375	81
BOLENDER, ROBERT P BIOLOGICAL STRUCTURE	ANALYTICAL MORPHOLOGY AND BIOCHEMISTRY OF HEPATOCYTES CTY		05-01-82 04-30-83	3	22300	5	R01 GM 22759-05	64,568	82
BYERS, BRECK E GENETICS	MOLECULAR CYTOLOGY OF THE CELL CYCLE GEN		06-01-82 05-31-83	4	22250	2	R01 GM 18541-11	120,039	82
CARRICO, C JAMES SURGERY	ORGAN AND CELLULAR RESPONSE TO TRAUMA AND BURNS SRC		08-01-82 07-31-83	3	13300	*5	P50 GM 24990-05	435,746	82
CHAMPOUX, JAMES J MICROBIOLOGY AND IMMUNOLOGY	STRAND SEPARATION IN DNA REPLICATION GEN		08-01-82 07-31-83	0	21200	5	R01 GM 23224-07	93,031	82
CHRISTIAN, GARY D CHEMISTRY	CARCINOGEN DETECTION IN HUMANS BY VIDEO FLUOROMETRY BMT		09-01-82 08-31-83	1	12820	5	R01 GM 22311-07	83,505	82
DAVIDSON, ERNEST R CHEMISTRY	EXCITED STATES OF BIOMOLECULES BBCA		07-01-82 06-30-83	2	22600	2	R01 GM 22937-07	74,986	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON									
SEATTLE	UNIVERSITY OF WASHINGTON								
DISTECHE, CHRISTINE M PATHOLOGY	ISOLATION OF X- & 7-SPECIFIC DNA TO STUDY X INACTIVATION MGN		05-01-82 04-30-83	2	21480	1	R01 GM 30476-01	99,960	82
DOERMANN, AUGUST H GENETICS	INVESTIGATION OF GENETIC PROBLEMS WITH BACTERIOPHAGES EVR		01-01-82 12-31-82	0	21320	5	R01 GM 13280-19	170,397	82
FANGMAN, WALTON L GENETICS	EUKARYOTIC CHROMOSOME STRUCTURE AND REPLICATION GEN		01-01-82 12-31-82	3	21600	5	R01 GM 18926-11	149,898	82
FINK, B RAYMOND ANESTHESIOLOGY	HYPOOSMOTIC LOCAL ANESTHESIA: MECHANISMS AND TOXICITY SAT		04-01-82 03-31-83	0	13200	5	R01 GM 27678-03	127,370	82
FORSTER, FRED K MECHANICAL ENGINEERING	ULTRASONIC ASSESSMENT OF WOUND HEALING AND BURN TRAUMA RNM		08-01-82 07-31-83	2	12910	1	R01 GM 31088-01	141,363	82
GALLANT, JONATHAN A GENETICS	CONTROL OF CELL GROWTH MBC		05-01-82 04-30-83	1	21320	5	R01 GM 13626-16	88,126	82
HALL, BENJAMIN D GENETICS	EXPRESSION AND REGULATION OF CYTOCHROME C GENES GEN		05-01-82 04-30-83	2	21750	5	R01 GM 11895-19	133,539	82
HARTWELL, LELAND H GENETICS	GENETIC ANALYSIS OF THE EUKARYOTIC CELL CYCLE MBC		09-01-82 08-31-83	2	21700	5	R01 GM 17709-13	142,804	82
HAWTHORNE, DONALD C GENETICS	SUPPRESSOR GENES AND INTERSPECIFIC HYBRIDS OF YEAST GEN		08-01-82 07-31-83	0	21320	5	R01 GM 27624-03	65,178	82
HEIMBACH, DAVID M SURGERY	EFFECTS OF MULTIPLE TRANSFUSIONS IN TRAUMA AND BURNS SAT		08-01-82 07-31-83	2	13410	1	R01 GM 31150-01	68,933	82
HILLE, MERRILL B ZOOLOGY	ACTIVATION OF PROTEIN SYNTHESIS IN EGG AND EMBRYOS MBY		02-01-82 01-31-83	1	22200	5	R01 GM 29792-05	65,949	82
HORNBEIN, THOMAS F ANESTHESIOLOGY	BRAIN HYPOXIA IN INTRAOPERATIVE HYPOTENSION-HEMODILUTION SAT		12-01-81 02-28-83	0	13200	5	R01 GM 27069-03	63,500	82
JENSEN, LYLE H BIOLOGICAL STRUCTURE	STRUCTURE OF BIOLOGICALLY IMPORTANT COMPOUNDS BBCA		04-01-82 03-31-83	2	22550	2	R01 GM 10828-27	97,047	82
JENSEN, LYLE H BIOLOGICAL STRUCTURE	CRYSTALLOGRAPHIC STUDY OF PROTEINS BBCB		08-01-82 07-31-83	0	22550	5	R01 GM 13366-18	105,862	82

INVESTIGATOR DEPARTMENT	IRG SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON								
SEATTLE		UNIVERSITY OF WASHINGTON						
LAIRD, CHARLES D ZOOLOGY	GEN	CHROMOSOME STRUCTURE AND FUNCTION 03-01-82 02-28-83	2	21600	5	R01 GM 19179-11	100,179	82
MACKLER, BRUCE PEDIATRICS	PB	STUDIES OF BIOLOGICAL OXIDATIONS 09-01-82 08-31-83	3	22450	5	R01 GM 23006-23	124,081	82
MAIER, RONALD V SURGERY	SAT	CELLULAR MECHANISMS LPS-INDUCED INJURY 01-01-82 12-31-82	2	13450	1	R23 GM 30272-01	43,222	82
MARTIN, ROY W ANESTHESIOLOGY	SGYB	AIR EMBOLI DETECTION BY ULTRASONIC CATHETER METHODS 04-01-81 09-30-82	0	12400	5	R01 GM 26187-03	69,085	81
MORRIS, DAVID R BIOCHEMISTRY	PC	BIOSYNTHESIS AND BIOLOGICAL FUNCTION OF POLYAMINES 05-01-82 04-30-83	0	21320	5	R01 GM 13957-16	88,616	82
MOTULSKY, ARNO G CENTER FOR INHERITED DISEASES	SRC	CENTER FOR INHERITED DISEASES 06-01-82 05-31-83	4	21915	*2	P50 GM 15253-16	673,477	82
NELSON, SIDNEY D MEDICINAL CHEMISTRY	PHRA	ALTERATION OF METABOLISM BY STRUCTURAL MODIFICATION 04-01-82 03-31-83	2	11890	2	R01 GM 25418-04A1	73,079	82
NELSON, WENDEL L MEDICINAL CHEMISTRY	PHRA	METABOLISM OF BETA-ADRENERGIC BLOCKERS-CHEMICAL ASPECTS 12-01-80 11-30-82	0	11860	5	R01 GM 25373-03	52,934	81
O'CONNOR, MARY L MICROBIOLOGY AND IMMUNOLOGY	MBC	A STUDY OF THE REGULATION OF METHANE OXIDATION 04-01-82 03-31-83	0	22400	5	R01 GM 27766-03	48,279	82
PIOUS, DONALD A PEDIATRICS	GEN	GENETIC STRUCTURE AND FUNCTION IN HUMAN CELLS 02-01-82 01-31-83	0	21400	5	R01 GM 15883-18	121,746	82
RAUCHER, STANLEY CHEMISTRY	MCHA	INDOLE ALKALOID SYNTHESIS VIA CLAISEN REARRANGEMENT 01-01-82 03-31-83	0	11910	5	R01 GM 25816-03	53,304	82
REID, BRIAN R CHEMISTRY	PC	RECOGNITION OF TRANSFER RNA BY PROTEINS 09-01-82 08-31-83	1	21100	5	R01 GM 28764-03	102,526	82
ROMAN, HERSCHEL L GENETICS	GEN	GENETIC INVESTIGATIONS IN YEAST--SACCHAROMYCES 04-01-82 03-31-83	2	21200	5	R01 GM 27949-30	74,027	82
SANDLER, LAURENCE M GENETICS	GEN	CYTOGENETICS OF MEIOSIS AND DEVELOPMENT IN DROSOPHILA 12-01-81 11-30-82	4	21700	2	R01 GM 09965-19	67,621	82

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
WASHINGTON										
SEATTLE			UNIVERSITY OF WASHINGTON							
SCHURR, J MICHAEL CHEMISTRY	BBCA		FLUCTUATIONS AND DYNAMICS OF DNA 07-01-82 06-30-83	1	21100	5	R01 GM	29338-02	69,633	82
SHAPIRO, BENNETT M BIOCHEMISTRY	CBY		MOLECULAR EVENTS IN FERTILIZATION 08-01-82 07-31-83	2	22200	5	R01 GM	23910-06	113,875	82
STORM, DANIEL R ·PHARMACOLOGY	MBC		CALMODULIN REGULATION OF B PERTUSSIS ADENYLATE CYCLASE 09-01-82 08-31-83	2	22400	1	R01 GM	31708-01	89,332	82
STRIKER, GARY E PATHOLOGY	SRC		CELL & MOLECULAR RESPONSE TO MECHANICAL & THERMAL INJURY 02-01-82 01-31-83	4	13300	1	P01 GM	29853-01	450,570	82
TELLER, DAVID C BIOCHEMISTRY	BBCA		ASSOCIATION REACTIONS OF ENZYMES 01-01-82 12-31-82	0	22500	5	R01 GM	13401-17	75,475	82
TRAGER, WILLIAM F MEDICINAL CHEMISTRY	PHRA		PRODUCT RATIOS AND MICROSOMAL MULTIPLICITY 04-01-82 03-31-83	1	11760	5	R01 GM	25136-05	71,371	82
WALSH, KENNETH A BIOCHEMISTRY	SSS		BIOLOGICAL CONTROL BY LIMITED PROTEOLYSIS 09-01-81 11-30-82	0	22500	5	P01 GM	15731-14	374,481	81
WALSH, KENNETH A BIOCHEMISTRY	BIO	1	PROTEOLYSIS AND PROCESSING OF PROTEIN STRUCTURES 09-01-82 11-30-82	0	22500	3	P01 GM	15731-14S1	89,445	82
WHITELEY, HELEN R MICROBIOLOGY AND IMMUNOLOGY	PC		REGULATION OF RNA SYNTHESIS 06-01-82 05-31-83	1	21750	5	R01 GM	20784-08	83,571	82
WHITELEY, HELEN R MICROBIOLOGY AND IMMUNOLOGY	MBC		PHAGE-INFECTED B. SUBTILIS: PROMOTER STUDIES 12-01-81 11-30-82	3	21750	2	R01 GM	26100-04	51,206	82
YOUNG, ELTON T, II BIOCHEMISTRY	GEN		GENETIC REGULATION OF ALCOHOL METABOLISM IN YEAST 12-01-81 11-30-82	4	21750	2	R01 GM	26079-04	152,990	82
** 48 TOTAL									6,055,269	

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WASHINGTON									
SEATTLE			VIRGINIA MASON RESEARCH CENTER						
HUANG, JEN-TZAW ANESTHESIOLOGY	SAT		ULTRALONG NERVE BLOCK AND UNCONVENTIONAL ANESTHETICS 09-01-82 08-31-83	0	13200	5	R01 GM 26136-05	54,941	82
** 1 TOTAL								54,941	
*** 2 *CENTERS								208,655	
*** 71 NONCENTER								7,926,814	
*** 73 TOTAL								8,135,469	

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WEST VIRGINIA									
MORGANTOWN			WEST VIRGINIA UNIVERSITY						
ELLINGSON, JOHN S BIOCHEMISTRY	CTY		METABOLISM OF PHOSPHOLIPIDS IN SECONDARY LYSOSOMES 09-01-82 08-31-83	1	22200	5	R01 GM 23807-05	75,112	82
FLEMING, WILLIAM W PHARMACOLOGY AND TOXICOLOGY	PHRA		MECHANISM OF NONSPECIFIC SUPERSENSITIVITY TO DRUGS 01-01-82 12-31-82	3	11770	9	R01 GM 29840-14	106,591	82
WIMMER, MARY J BIOCHEMISTRY	PB		MECHANISMS OF ENERGY-COUPLED ATP SYNTHESIS/HYDROLYSIS 08-01-82 07-31-83	2	22450	2	R01 GM 26334-04	72,831	82
** 3 TOTAL								254,534	
*** 0 *CENTERS								0	
*** 3 NONCENTER								254,534	
*** 3 TOTAL								254,534	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WISCONSIN								
EAU CLAIRE	UNIVERSITY OF WISCONSIN EAU CLAIRE							
LIM, JOHNG K / BIOLOGY	DNA REARRANGEMENTS IN DROSOPHILA CHROMOSOMES / GEN	09-20-82 08-31-83	2	21600	1	R01 GM 31106-01	116,739	82
** 1 TOTAL							116,739	
MADISON	UNIVERSITY OF WISCONSIN MADISON							
ANDERSON, ROBERT P / GENETICS	THE GENETIC SPECIFICATION OF NEMATODE MUSCLE / GEN	02-01-82 01-31-83	2	21700	1	R01 GM 30132-01	110,489	82
BECK, STANLEY D / ENTOMOLOGY	PHOTOPERIODIC REGULATION OF INSECT DEVELOPMENT / TMP	08-01-82 07-31-83	0	22200	5	R01 GM 28012-03	59,580	82
BEINERT, HELMUT / INSTITUTE FOR ENZYME RESEARCH	COMPONENTS AND PATHWAYS IN BIOLOGICAL OXIDATIONS / PB	09-01-82 08-31-83	1	22450	5	R01 GM 12394-19	151,924	82
BLATTNER, FREDERICK R / GENETICS	REGULATORY SITES IN PRO- AND EUKARYOTIC GENOMES / MGN	02-01-82 01-31-83	2	21200	5	R01 GM 21812-08	239,206	82
BLATTNER, FREDERICK R / GENETICS	APPLICATION OF MICROPROCESSORS TO NUCLEIC ACID DATA / SSS	08-01-81 07-31-83	0	21100	5	R01 GM 28252-02	39,820	81
BORISY, GARY / MOLECULAR BIOLOGY	ORGANIZATION AND REPLICATION OF YEAST RIBOSOMAL DNA / GEN	04-01-81 09-30-82	0	21750	5	R01 GM 26527-03	92,751	81
BORISY, GARY G / MOLECULAR BIOLOGY	MECHANISM AND CONTROL OF MICROTUBULE ASSEMBLY / MBY	04-01-82 03-31-83	0	22250	5	R01 GM 25062-05	119,820	82
BORISY, GARY G / MOLECULAR BIOLOGY	MOLECULAR ANALYSIS OF MITOTIC SPINDLE COMPONENTS / MBY	02-01-82 01-31-83	4	22250	1	R01 GM 30385-01	87,854	82
BRILL, WINSTON J / BACTERIOLOGY	MOLYBDENUM METABOLISM / MBC	08-01-82 07-31-83	0	22400	5	R01 GM 22130-08	91,746	82
BURGESS, RICHARD R / ONCOLOGY	RNA POLYMERASE SIGMA SUBUNIT: STRUCTURE AND FUNCTION / MG	12-01-81 11-30-82	3	21750	5	R01 GM 28575-02	87,264	82

READEX FICHE

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WISCONSIN										
MADISON	UNIVERSITY OF WISCONSIN MADISON									
CLELAND, WILLIAM W BIOCHEMISTRY	DETERMINATION OF ENZYME MECHANISMS BY KINETIC STUDIES	BIO		01-01-82 12-31-82	4	22400	2	R01 GM 18938-1:	126,701	82
CRAIG, ELIZABETH A PHYSIOLOGICAL CHEMISTRY	REGULATION AND FUNCTION OF THE YEAST HEAT SHOCK RESPONSE	GEN		07-01-82 06-30-83	2	21750	1	R01 GM 31107-01	94,648	82
CRAIG, ELIZABETH A PHYSIOLOGICAL CHEMISTRY	CHARACTERIZATION OF TRANSCRIPTIONALLY REGULATED GENES	GEN		04-01-82 03-31-83	0	21750	5	R01 GM 27870-03	79,025	82
CRAVEN, GARY R MOLECULAR BIOLOGY	THE ASSEMBLY MECHANISM OF THE BACTERIAL RIBOSOME	MBY		08-01-82 07-31-83	4	21320	2	R01 GM 24109-06	182,513	82
CULBERTSON, MICHAEL R GENETICS	FRAMESHIFT SUPPRESSORS AND TRANSFER RNA IN YEAST	GEN		04-01-82 03-31-83	4	21320	2	R01 GM 26217-04	99,574	82
DAHLBERG, JAMES E PHYSIOLOGICAL CHEMISTRY	STRUCTURE, ORGANIZATION AND EXPRESSION OF SNRNA GENES	GEN		04-01-82 03-31-83	2	21750	1	R01 GM 30220-01	117,970	82
DE MARS, ROBERT I MEDICAL GENETICS	GENETIC STUDIES WITH CULTIVATED MAMMALIAN CELLS	MGN		05-01-82 04-30-83	0	21250	5	R01 GM 06983-23	165,588	82
DIMOND, RANDALL L BACTERIOLOGY	REGULATION OF DIVERGENT PATHWAYS OF DEVELOPMENT	GEN		09-01-81 02-28-83	0	22200	5	R01 GM 26632-03	86,957	81
DIMOND, RANDALL L BACTERIOLOGY	SYNTHESIS AND LOCALIZATION OF LYSOSOMAL ENZYMES	MBY		04-01-82 03-31-83	1	22200	5	R01 GM 29156-02	89,034	82
DIMOND, RANDALL L BACTERIOLOGY	2-MANNOSIDASE REGULATION DURING SLIME MOLD DEVELOPMENT	MBY		07-01-82 06-30-83	2	21700	1	R01 GM 31181-01	67,308	82
ENGELS, WILLIAM R MEDICAL GENETICS	BEHAVIOR OF P FACTORS: MOVABLE ELEMENTS IN DROSOPHILA	GEN		07-01-82 06-30-83	2	21780	1	R01 GM 30948-01	75,640	82
FERRY, JOHN D CHEMISTRY	VISCOELASTIC PROPERTIES OF BIOLOGICAL MACROMOLECULES	BBCB		01-01-82 12-31-82	1	22500	5	R01 GM 21652-08	46,944	82
FILLINGAI E, ROBERT H PHYSIOLOGICAL CHEMISTRY	PROTON-TRANSLOCATING SECTOR OF E. COLI ATPASE COMPLEX	MBC		07-01-82 06-30-83	1	22450	5	R01 GM 23105-07	76,940	82
FILLINGAME, ROBERT H PHYSIOLOGICAL CHEMISTRY	PROTON-TRANSLOCATING SECTOR OF E. COLI ATPASE COMPLEX	MBC		07-01-82 06-30-83	1	22450	3	R01 GM 23105-07S1	36,922	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WISCONSIN									
MADISON	UNIVERSITY OF WISCONSIN MADISON								
FREY, PERRY A INSTITUTE FOR ENZYME RESEARCH	NUCLEOTIDYL AND PHOSPHOTRANSFERASE STEREOCHEMISTRY PB		07-01-82 06-30-83	3	22400	5	R01 GM 30480-02	99,462	82
GIBBONS, WILLIAM A BIOCHEMISTRY	STRUCTURE, SPECTROSCOPY, AND FUNCTION OF NEUROPEPTIDES BBCB		07-01-82 06-30-83	2	11930	5	R01 GM 28826-08	102,979	82
GROSSMAN, JEFFREY E MEDICINE	CRYOPRECIPITATE THERAPY OF CRITICALLY ILL PATIENTS SAT		08-01-82 07-31-83	1	13410	1	R01 GM 31066-01	61,396	82
HUTCHINSON, C RICHARD NONE	STEREOCHEMISTRY OF POLYKETIDE ANTIBIOTIC BIOSYNTHESIS MCHA		01-01-81 12-31-82	0	11910	5	R01 GM 25799-03	27,269	81
INMAN, ROSS B BIOPHYSICS	STRUCTURE AND REPLICATION OF DNA MG		01-01-82 12-31-82	4	21200	2	R01 GM 14711-16	155,733	82
INMAN, ROSS B BIOPHYSICS	REPLICATION OF DNA IN EUCARYOTES GEN		07-01-82 06-30-83	2	21200	1	R01 GM 31249-01	82,284	82
KAHAN, LAWRENCE PHYSIOLOGICAL CHEMISTRY	CELL SORTING CORE FACILITY SSS		09-01-81 08-31-83	0	12900	5	P41 GM 27408-03	21,450	81
KAHAN, LAWRENCE PHYSIOLOGICAL CHEMISTRY	IMMUNOCHEMICAL ANALYSIS OF 30S RIBOSOME STRUCTURE PC		05-01-82 04-30-83	0	21320	5	R01 GM 22150-08	65,591	82
KUNG, CHING MOLECULAR BIOLOGY	GENETIC AND BIOCHEMICAL STUDIES OF PARAMECIUM BEHAVIOR GEN		05-01-82 04-30-83	2	22300	5	R01 GM 22714-08	204,324	82
LILIEN, JACK E ZOOLOGY	SURFACE TRANSFERASE: PROPERTIES & ROLE IN CELL ADHESION CP		04-01-82 03-31-83	1	22200	5	R01 GM 29131-02	87,549	82
METZENBERG, ROBERT L, JR PHYSIOLOGICAL CHEMISTRY	THE GENETIC CONTROL OF PROTEIN SYNTHESIS GEN		01-01-82 12-31-82	1	21750	5	R01 GM 08995-21	83,518	82
MUKERJEE, PASUPATI NONE	MICROENVIRONMENTAL STUDIES ON PHOSPHOLIPID SYSTEMS BBCA		01-01-81 12-31-82	0	22500	5	R01 GM 26078-03	32,394	81
NELSEN, STEPHEN F CHEMISTRY	REACTIVITY OF AMINO NITROGEN COMPOUNDS MCHA		07-01-82 06-30-83	2	11940	1	R01 GM 29549-01A1	58,104	82
NELSON, DAVID L BIOCHEMISTRY	CALMODULIN IN TRICHOCYST ASSEMBLY AND STRUCTURE BIO	1	07-01-82 06-30-83	2	22200	1	R01 GM 31098-01	80,380	82

WISCONSIN

MADISON

UNIVERSITY OF WISCONSIN MADISON

INVESTIGATOR / DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
NOMURA, MASAYASU / INSTITUTE FOR ENZYME RESEARCH	RIBOSOME STRUCTURE AND FUNCTION	MBY		02-01-82 01-31-83	0	21320	5	R01 GM 28003-03	84,080	82
NOMURA, MASAYASU / INSTITUTE FOR ENZYME RESEARCH	GENETICS AND BIOCHEMISTRY OF RIBOSOME BIOSYNTHESIS	GEN		06-01-82 05-31-83	0	21320	5	R01 GM 20427-10	255,827	82
RECORD, M THOMAS, JR / CHEMISTRY	ION EFFECTS ON INTERACTIONS OF RNA POLYMERASE & DNA	BBCA		01-01-82 12-31-82	0	21310	5	R01 GM 23467-06	86,873	82
REZNIKOFF, WILLIAM S / BIOCHEMISTRY	PROMOTER AND TRANSPOSON STRUCTURAL STUDIES	MBC		09-01-82 08-31-83	2	21750	5	R01 GM 19670-10	114,655	82
RICH, DANIEL H / NONE	INHIBITORS OF AMINOPEPTIDASES	BNP		09-01-82 08-31-83	2	11430	5	R01 GM 29497-02	94,137	82
RIS, HANS / ZOOLOGY	SUBMICROSCOPIC ORGANIZATION OF CHROMOSOMES	MBY		07-01-82 06-30-83	1	21600	2	R01 GM 04738-26A1	80,023	82
RUSY, BEN F / ANESTHESIOLOGY	ANESTHETIC INDUCED CARDIAC DEPRESSION	SAT		05-01-82 04-30-83	2	13200	1	R01 GM 29527-01A1	38,064	82
SHRAGO, EARL S / MEDICINE	CONTROL MECHANISMS IN INTERMEDIARY METABOLISM	PC		01-01-82 12-31-82	2	22400	5	R01 GM 14033-16	72,144	82
SIH, CHARLES J / NONE	MICROBIAL DEGRADATION OF STEROL SIDE CHAINS	MCHA		01-01-82 12-31-82	1	11920	5	R01 GM 26838-03	75,362	82
SMITHIES, OLIVER / MEDICAL GENETICS	GENETIC CONTROL OF PROTEIN STRUCTURE AND SYNTHESIS	GEN		01-01-82 12-31-82	0	21750	5	R01 GM 20069-10	238,519	82
STUBBE, JOANNE / BIOCHEMISTRY	MECHANISM AND INHIBITION OF RIBONUCLEOTIDE REDUCTASE	PB		07-01-82 06-30-83	0	22400	5	R01 GM 29595-03	78,725	82
SUNDARALINGAM, MUTTAIYA / BIOCHEMISTRY	X-RAY STUDIES ON NUCLEIC ACID CONSTITUENTS	BBCA		03-01-82 02-28-83	3	21100	5	R01 GM 17378-13	69,823	82
SUNDARALINGAM, MUTTAIYA / BIOCHEMISTRY	X-RAY DIFFRACTION STUDIES OF RIBONUCLEIC ACIDS	BBCA		07-01-82 06-30-83	2	21100	2	R01 GM 18455-09	79,677	82
TROST, BARRY M / CHEMISTRY	MACROLIDES, STEROIDS, PROSTANOIDS, ETC--SYNTHETIC DESIGN	MCHA		06-01-82 05-31-83	0	11940	5	R01 GM 13598-17	118,318	82

INVESTIGATOR DEPARTMENT	PROJECT TITLE	IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WISCONSIN										
MADISON	UNIVERSITY OF WISCONSIN MADISON									
UPDIKE, STUART J MEDICINE	IMMOBILIZED ENZYMES TO ALTER AND ANALYZE METABOLISM	PBC		07-01-81 06-30-83	0	12820	5	R01 GM 16133-14	74,067	81
VAUGHAN, WORTH E CHEMISTRY	ION AND POLYION DYNAMICS IN DNA SOLUTIONS	BBCA		03-01-82 02-28-83	0	21100	5	R01 GM 27651-03	30,751	82
YATVIN, MILTON B HUMAN ONCOLOGY	ENGINEERING OF LIPOSOMES TO RELEASE DRUG BY HYPERTHERMIA	PHRA		08-01-82 07-31-83	0	11750	5	R01 GM 26227-03	58,729	82
ZAGZEBSKI, JAMES A RADIOLOGY	ULTRASONIC SCATTER IN SOFT TISSUE PHANTOMS	RNM		05-01-82 04-30-83	2	12910	1	R01 GM 30522-01	103,010	82
ZIMMERMAN, HOWARD E CHEMISTRY	PHOTOCHEMISTRY OF ORGANIC MOLECULES	MCHA		08-01-82 07-31-83	1	11930	5	R01 GM 07487-22	123,113	82
** 56 TOTAL									5,464,548	
MILWAUKEE	MARQUETTE UNIVERSITY									
COURTRIGHT, JAMES B BIOLOGY	GENETIC REGULATION OF TISSUE-SPECIFIC GENE EXPRESSION	GEN		05-01-82 08-31-83	0	21700	5	R01 GM 27866-03	47,319	82
** 1 TOTAL									47,319	
MILWAUKEE	MEDICAL COLLEGE OF WISCONSIN									
FRERMAN, FRANK E MICROBIOLOGY	ACYL COA DEHYDROGENASES--REGULATION OF BETA-OXIDATION	BIO		08-01-81 12-31-82	0	22400	5	R01 GM 25486-04	91,312	81
FUJIMOTO, JAMES M PHARMACOLOGY AND TOXICOLOGY	ALTERATION IN DRUG METABOLISM BY CERTAIN CARBAMATES	PHRA		12-01-81 11-30-82	2	11850	5	R01 GM 16503-14	61,961	82

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER		TOTAL DOLLARS	FY
WISCONSIN										
MILWAUKEE	MEDICAL COLLEGE OF WISCONSIN									
HYDE, JAMES S RADIOLOGY	NITROXIDE RADICAL SPIN LABEL METHODS BBCB		03-01-82 02-28-83	1	22500	5	R01 GM	22923-07	99,698	82
HYDE, JAMES S RADIOLOGY	DEVELOPMENT OF BIOMEDICAL ESR INSTRUMENTATION BBCB		07-01-82 06-30-83	2	12840	2	R01 GM	27665-04	269,735	82
KAMPINE, JOHN P ANESTHESIOLOGY	THE EFFECTS OF ANESTHETICS ON CARDIOVASCULAR REFLEXES SAT		07-01-82 06-30-83	1	13200	5	R01 GM	29641-02	54,619	82
KIM, JUNG-JA P BIOCHEMISTRY	STRUCTURE AND MECHANISM OF A FLAVOPROTEIN DEHYDROGENASE BBCB		03-01-82 02-28-83	2	22550	1	R01 GM	29076-01A1	75,294	82
MASTERS, BETTIE SUE BIOCHEMISTRY	PROSTAGLANDIN 19- AND 20-HYDROXYLATION BY CYTOCHROME P-4 PB		06-01-82 05-31-83	2	11760	1	R01 GM	31296-01	70,014	82
MEHLER, ALAN H LABORATORY OF ENZYMOLOGY	STRUCTURE AND FUNCTION OF AMINOACYL-TRNA SYNTHETASES BIO		04-01-82 03-31-83	1	22400	5	R01 GM	13037-17	116,533	82
SANCES, ANTHONY, JR SURGERY	ELECTRICAL BURN INJURY STUDIES SAT		07-01-81 12-31-82	0	13410	5	R01 GM	26956-03	87,694	81
SEALY, ROGER C RADIOLOGY	RADICAL REACTIONS OF CATECHOLS AND CATECHOLAMINES PB		04-01-82 03-31-83	1	11920	5	R01 GM	29035-02	52,230	82
** 10 TOTAL									979,090	
MILWAUKEE	UNIVERSITY OF WISCONSIN MILWAUKEE									
PETERING, DAVID H CHEMISTRY	STRUCTURE AND REACTIVITY OF METALLOTHIONINES TOX		04-01-82 03-31-83	2	22500	1	R01 GM	29583-01A1	120,472	82
WELLS, BARBARA D CHEMISTRY	SPECTROSCOPIC STUDIES OF SOLUTION CONFORMATIONS OF TRNA BBCA		05-01-82 04-30-83	2	21320	1	R01 GM	30700-01	94,611	82
** 2 TOTAL									215,083	
*** 0 *CENTERS									0	
*** 70 NONCENTER									6,822,779	
*** 70 TOTAL									6,822,779	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
WYOMING									
LARAMIE	UNIVERSITY OF WYOMING								
BARDEN, ROLAND E	AFFINITY LABELS FOR ACYL-COA UTILIZING ENZYME								
CHEMISTRY	BIO		04-01-82 03-31-83	1	22400	5	R01 GM 20077-08	63,413	82
HALEY, BOYD E	APPLICATION OF PHOTOAFFINITY NUCLEOTIDE ANALOGS								
BIOCHEMISTRY	PC		03-01-82 02-28-83	3	21100	5	R01 GM 21998-08	105,715	82
JI, TAE H	CROSSLINKING OF HORMONES TO RECEPTORS								
BIOCHEMISTRY	MBY		01-01-82 12-31-82	1	22300	5	R01 GM 23586-06	63,677	82
** 3 TOTAL								232,805	
*** 0 *CENTERS								0	
*** 3 NONCENTER								232,805	
*** 3 TOTAL								232,805	

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ARGENTINA									
BUENOS AIRES			UNIVERSITY OF BUENOS AIRES						
FRYDMAN, BENJAMIN J PLANT BIOCHEMISTRY	BMT		BIOSYNTHETIC INTERMEDIATES OF PORPHYRINS 09-01-82 08-31-83	1	11760	5	R01 GM 11973-17	14,900	82
** 1 TOTAL								14,900	
*** 0 *CENTERS								0	
*** 1 NONCENTER								14,900	
*** 1 TOTAL								14,900	

INVESTIGATOR DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
AUSTRALIA									
BEDFORD PARK	FLINDERS UNIVERSITY OF SOUTH AUSTRALIA								
BURGOYNE, LEIGH A SCHOOL OF BIOLOGY	THE INTERNAL SPACE AND SURFACES OF EUKARYOTE NUCLEI CTY		08-01-82 07-31-83	0	21600	5	R01 GM 27968-03	26,173	82
** 1 TOTAL								26,173	
CANBERRA	AUSTRALIAN NATIONAL UNIVERSITY								
SHINE, JOHN NONE	BACTERIAL GENES INVOLVED IN SYMBIOTIC NITROGEN FIXATION MBC		09-01-81 11-30-82	1	21600	5	R01 GM 28027-02	57,322	81
** 1 TOTAL								57,322	
*** 0 *CENTERS								0	
*** 2 NONCENTER								83,495	
*** 2 TOTAL								83,495	

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CANADA									
MONTREAL			MC GILL UNIVERSITY						
HERSCOVICS, ANNETTE A / MEDICINE	PBC		MANNOPROTEIN BIOSYNTHESIS IN SACCHAROMYCES CEREVISIAE / 05-01-82 04-30-83	2	22410	1	R01 GM 31265-01	46,094	82
** 1 TOTAL								46,094	
SASKATOON			UNIVERSITY OF SASKATCHEWAN						
HAYES, SIDNEY / MICROBIOLOGY	MG		ANALYSIS OF THE LAMBDA REPLICATOR / 02-01-82 01-31-83	2	21200	1	R01 GM 30077-01	66,230	82
** 1 TOTAL								66,230	
TORONTO			UNIVERSITY OF TORONTO						
SADOWSKI, PAUL D / MEDICAL GENETICS	SSS		ASSEMBLY AND RECOMBINATION IN PROKARYOTES AND EUKARYOTES / 01-01-82 12-31-82	1	21320	5	R01 GM 24361-05	86,199	82
** 1 TOTAL								86,199	
VANCOUVER			UNIVERSITY OF BRITISH COLUMBIA						
DOLPHIN, DAVID H / CHEMISTRY	PB		MYELOPEROXIDASE, SIROHEME, B12: SYNTHESIS AND FUNCTION / 07-01-82 06-30-83	1	11920	5	R01 GM 29198-02	75,549	82
MAUK, ARTHUR G / BIOCHEMISTRY	BMT		CYTOCHROME B5-HEMOGLOBIN REDOX COUPLE / 09-01-82 08-31-83	0	22400	5	R01 GM 28834-03	29,260	82
** 2 TOTAL								104,809	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR / DEPARTMENT	IRG	SUB	PROJECT TITLE / START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
CANADA									
WINNIPEG			UNIVERSITY OF MANITOBA						
STANDING, KENNETH G PHYSICS	SSS		TIME-OF-FLIGHT MASS SPECTROMETRY OF LARGE BIOMOLECULES 06-01-82 05-31-83	2	12840	1	R01 GM 30605-01	59,068	82
								59,068	
** 1 TOTAL									
*** 0 *CENTERS								0	
*** 6 NONCENTER								362,400	
*** 6 TOTAL								362,400	

INVESTIGATOR / DEPARTMENT	PROJECT TITLE / IRG	SUB	START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
ISRAEL									
JERUSALEM	HEBREW UNIVERSITY OF JERUSALEM								
CABANTCHIK, Z IOAV BIOLOGICAL CHEMISTRY	ANION TRANSPORT: MOLECULAR DISSECTION OF PROCESSES BBCA		05-01-82 04-30-83	0	22300	5	R01 GM 27753-03	42,088	82
CEDAR, HOWARD INSTITUTE OF MICROBIOLOGY	TRANSCRIPTION AND MODIFICATION OF CHROMATIN DNA MGN		06-01-82 05-31-83	0	21600	5	R01 GM 20483-09	67,302	82
GLASER, GAD CELLULAR BIOCHEMISTRY	STRUCTURE AND CONTROL OF E. COLI ACTIVITY MG		08-01-82 07-31-83	1	21750	5	R01 GM 25286-05	50,881	82
LEVITZKI, ALEXANDER BIOLOGICAL CHEMISTRY	BETA-ADRENERGIC RECEPTOR ADENYLATE CYCLASE COMPLEX BIO		07-01-81 02-28-83	0	11770	5	R01 GM 26604-03	43,415	81
LEVITZKI, ALEXANDER BIOLOGICAL CHEMISTRY	THE ADENOSINE RECEPTOR AND ITS MODE OF COUPLING BIO		04-01-82 03-31-83	0	22300	5	R01 GM 27087-03	46,728	82
** 5 TOTAL								250,414	
REHOVOT	WEIZMANN INSTITUTE OF SCIENCE								
YAFFE, DAVID CELL BIOLOGY	CONTROL OF DIFFERENTIATION IN ESTABLISHED CELL LINES CTY		01-01-82 12-31-82	0	21700	5	R01 GM 22767-06	48,801	82
** 1 TOTAL								48,801	
*** 0 *CENTERS								0	
*** 6 NONCENTER								299,215	
*** 6 TOTAL								299,215	

INVESTIGATOR DEPARTMENT	PROJECT TITLE IRG SUB START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
SPAIN							
MADRID	AUTONOMOUS UNIVERSITY OF MADRID						
SALAS, MARGARITA VIROLOGIA V GENETICA	DNA-PROTEIN COMPLEX OF BACILLUS SUBTILIS PHAGE 29 MBC 01-01-82 12-31-82	0	21200	5	R01 GM 27242-03	34,771	82
** 1 TOTAL						34,771	
*** 0 *CENTERS						0	
*** 1 NONCENTER						34,771	
*** 1 TOTAL						34,771	

TABLE 5 RESEARCH GRANTS BY STATE, CITY AND INSTITUTION

INVESTIGATOR DEPARTMENT	IRG	SUB	PROJECT TITLE START AND END DATES	F-YRS	PROGRAM (FINE CODE)	T	GRANT-NUMBER	TOTAL DOLLARS	FY
UNITED KINGDOM									
LONDON			UNIVERSITY OF LONDON						
CHOTHIA, CYRUS NONE	BBCB		THE THREE-DIMENSIONAL STRUCTURE OF PROTEIN MOLECULES 12-01-81 11-30-82	2	22500	2	R01 GM 25435-04	23,957	82
** 1 TOTAL								23,957	
*** 0 *CENTERS								0	
*** 1 NONCENTER								23,957	
*** 1 TOTAL								23,957	
**** 22 *CENTERS								2,497,069	
**** 2,857 NONCENTERS								294,152,295	
**** 2,879 TOTAL								296,649,364	

☆U.S. GOVERNMENT PRINTING OFFICE: 1983-381-132:3098

3.